



GC773-2-seqlist

SEQUENCE LISTING

<110> Day, Anthony G.
Estell, David A.
Lyons, Eric H.
Yao, Jian

<120> Methods for Modulating Proteins Not
Previously Known as Proteases

<130> GC773-2

<140> US 10/618,281

<141> 2003-07-11

<150> US 60/395,325

<151> 2002-07-12

<160> 92

<170> FastSEQ for windows Version 4.0

<210> 1

<211> 303

<212> PRT

<213> Homo sapiens

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Gly Leu Gly Thr Val Pro Ala Pro Ser His Leu Pro Ser Ser Thr Ala
35 40 45
Ser Pro Ser Gly Pro Pro Ala Gln Asp Gln Asp Ile Cys Pro Ser Ser
50 55 60
Glu Asp Glu Ser Gly Gln Trp Lys Asn Phe Thr Ala Glu Leu Arg Gln
65 70 75 80
Pro Gly Pro Asp Leu His Val Lys Pro Leu Leu Glu Glu Asp Thr Tyr
85 90 95
Thr Gly Thr Val Ser Ile Ser Ile Asn Leu Ser Thr Pro Thr Arg His
100 105 110
Leu Trp Leu His Leu Gly Glu Ser Arg Ile Thr Trp Leu Pro Asp Thr
115 120 125
Arg His Leu Trp Leu His Leu Gln Glu Thr Arg Ile Thr Trp Leu Pro
130 135 140
Glu Met Lys Arg Pro Ser Gly Asp Gln Val Gln Ile Arg Arg Cys Phe
145 150 155 160
Glu Tyr Lys Lys Gln Glu Tyr Val Val Val Glu Ala Glu Glu Glu Ser
165 170 175
Gly Asp Gly Leu Tyr Leu Leu Thr Met Glu Phe Ala Gly Trp Leu Asn
180 185 190
Ser Ser Leu Leu Gly Phe Thr Tyr Thr Glu Asn Gly Gln Val Lys Ser
195 200 205
Ile Ala Ala Thr Asp His Glu Pro Thr Asp Ala Arg Lys Phe Phe Pro
210 215 220
Cys Phe Asp Lys Pro Asn Lys Lys Ala Thr Tyr Thr Ile Ser Val Thr
225 230 235 240
His Pro Lys Glu Tyr Glu Ala Leu Ser His Met Pro Val Ala Lys Glu
245 250 255
Glu Ser Val Asp Asp Lys Trp Asn Gln Thr Thr Phe Lys Lys Ser Val

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Pro	Met	Ser	260	Tyr	Leu	Val	Cys	265	Ala	Val	His	Gln	270	Phe	His	Thr
		275	Met				280	Phe				285				
Val	Lys	Thr	Ile	Ser	Asp	Ile	Gly	Lys	Pro	Val	Ser	Leu	Ile	Ile		
	290					295					300					

<210> 2

<211> 407

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 230

<223> Xaa = Any Amino Acid

<400> 2

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Leu	Asn	Val	Glu	Pro	Ala	Gly	Ala	Thr	Leu	Asp	Pro	Val	Trp	Ile	Pro
			20					25					30		
Leu	Arg	Gln	Val	His	Pro	Gly	Arg	Arg	Thr	Leu	Asn	Leu	Leu	Arg	Gly
		35					40					45			
Trp	Gly	Lys	Pro	Ala	Glu	Leu	Pro	Lys	Leu	Gly	Pro	Ser	Pro	Gly	Asp
	50					55					60				
Lys	Pro	Ala	Ser	Val	Pro	Leu	Ser	Lys	Phe	Leu	Asp	Ala	Gln	Tyr	Phe
65					70				75						80
Gly	Glu	Ile	Gly	Leu	Gly	Thr	Pro	Pro	Gln	Asn	Phe	Thr	Val	Ala	Phe
				85					90					95	
Asp	Thr	Gly	Ser	Ser	Asn	Leu	Trp	Val	Pro	Ser	Arg	Arg	Cys	His	Phe
			100					105					110		
Phe	Ser	Val	Pro	Cys	Trp	Phe	His	Arg	Phe	Asn	Pro	Asn	Ala	Ser	
		115					120				125				
Ser	Ser	Phe	Lys	Pro	Ser	Gly	Thr	Lys	Phe	Ala	Ile	Gln	Tyr	Gly	Thr
		130				135					140				
Gly	Arg	Val	Asp	Gly	Ile	Leu	Ser	Glu	Asp	Lys	Leu	Thr	Ile	Gly	Gly
145					150					155					160
Ile	Lys	Gly	Ala	Ser	Val	Ile	Phe	Gly	Glu	Ala	Leu	Trp	Glu	Ser	Ser
				165					170					175	
Leu	Val	Phe	Thr	Val	Ser	Arg	Pro	Asp	Gly	Ile	Leu	Arg	Leu	Gly	Phe
			180					185					190		
Pro	Ile	Leu	Ser	Val	Glu	Gly	Val	Arg	Pro	Pro	Leu	Asp	Val	Leu	Val
		195					200					205			
Glu	Gln	Gly	Leu	Leu	Asp	Lys	Pro	Val	Phe	Ser	Phe	Tyr	Phe	Asn	Arg
	210					215					220				
Cys	Trp	Gly	Gly	Gly	Xaa	Gly	Cys	Ala	Met	Tyr	Cys	Arg	Ile	Val	Arg
225					230					235					240
Leu	Glu	Asp	Pro	Leu	Asp	Thr	Gly	Thr	Pro	Val	Ile	Val	Gly	Pro	Thr
				245					250					255	
Glu	Glu	Ile	Gly	Pro	Cys	Met	Gln	Pro	Leu	Gly	Glu	Ser	Leu	Leu	Ala
			260					265					270		
Gly	Glu	Tyr	Ile	Ile	Arg	Cys	Ser	Glu	Ile	Pro	Lys	Leu	Pro	Ala	Val
		275					280					285			
Ser	Leu	Leu	Ile	Gly	Gly	Val	Trp	Phe	Asn	Leu	Thr	Ala	Gln	Asp	Tyr
	290					295					300				
Val	Ile	Gln	Phe	Ala	Gln	Gly	Asp	Val	Arg	Leu	Cys	Leu	Ser	Gly	Phe
305					310					315					320
Arg	Ala	Leu	Asp	Ile	Ala	Ser	Pro	Pro	Val	Pro	Val	Trp	Ile	Leu	Gly
				325					330					335	
Asp	Val	Phe	Leu	Gly	Ala	Tyr	Val	Thr	Val	Phe	Asp	Arg	Gly	Asp	Met
			340					345					350		
Lys	Ser	Gly	Ala	Arg	Val	Gly	Leu	Ala	Arg	Ala	Arg	Pro	Gly	Ala	Asp
		355					360					365			

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Leu Gly Arg Arg Glu Thr Gln Ala Gln Tyr Arg Gly Cys Arg Pro Gly
 370 375 380
 Asp His Ala His Arg Val Ala Leu Ala Leu Leu Ser Lys Asn Pro Ile
 385 390 395 400
 Phe Pro Leu Asn Glu Pro Ala
 405

<210> 3
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 3
 Met Asp Thr Ala Ala Lys Ala Ile Ile Leu Glu Gln Ser Gly Lys Asn
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 Gln Gly Tyr Arg Asp Ala Asp Ile Arg Ser Phe Trp Pro Glu Gly Gly
 20 25 30
 Val Cys Leu Pro Gly Ser Pro Asp Val Leu Glu Ser Gly Val Cys Met
 35 40 45
 Lys Ala Val Cys Lys Arg Val Ala Val Glu Gly Val Asp Val Ile Phe
 50 55 60
 Ser Arg Asp Ala Gly Arg Tyr Val Cys Asp Tyr Thr Tyr Tyr Leu Ser
 65 70 75 80
 Leu His His Gly Lys Gly Cys Ala Ala Leu Ile His Val Pro Pro Leu
 85 90 95
 Ser Arg Gly Leu Pro Ala Ser Leu Leu Gly Arg Ala Leu Arg Val Ile
 100 105 110
 Ile Gln Glu Met Leu Glu Glu Val Gly Lys
 115 120

<210> 4
 <211> 393
 <212> PRT
 <213> Homo sapiens

<400> 4
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 Val Glu Arg Leu Ala Arg Lys Phe Gly Phe Val Asn Leu Gly Pro Ile
 20 25 30
 Phe Pro Asp Gly Gln Tyr Phe His Leu Arg His Arg Gly Val Val Gln
 35 40 45
 Gln Ser Leu Thr Pro His Trp Gly His Arg Leu His Leu Lys Lys Asn
 50 55 60
 Pro Lys Val Gln Trp Phe Gln Gln Gln Thr Leu Gln Arg Arg Val Lys
 65 70 75 80
 Arg Ser Val Val Val Pro Thr Asp Pro Trp Phe Ser Lys Gln Trp Tyr
 85 90 95
 Met Asn Ser Glu Ala Gln Pro Asp Leu Ser Ile Leu Gln Ala Trp Ser
 100 105 110
 Gln Gly Leu Ser Gly Gln Gly Ile Val Val Ser Val Leu Asp Asp Gly
 115 120 125
 Ile Glu Lys Asp His Pro Asp Leu Trp Ala Asn Tyr Asp Pro Leu Ala
 130 135 140
 Ser Tyr Asp Phe Asn Asp Tyr Asp Pro Asp Pro Gln Pro Arg Tyr Thr
 145 150 155 160
 Pro Ser Lys Glu Asn Arg His Gly Thr Arg Cys Ala Gly Glu Val Ala
 165 170 175
 Ala Met Ala Asn Asn Gly Phe Cys Gly Val Gly Val Ala Phe Asn Ala
 180 185 190
 Arg Ile Gly Gly Val Arg Met Leu Asp Gly Thr Ile Thr Asp Val Ile
 195 200 205
 Glu Ala Gln Ser Leu Ser Leu Gln Pro Gln His Ile His Ile Tyr Ser

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210 215 220
 Ala Ser Trp Gly Pro Glu Asp Asp Gly Arg Thr Val Asp Gly Pro Gly
 225 230 235 240
 Ile Leu Thr Arg Glu Ala Phe Arg Arg Gly Val Thr Lys Gly Arg Gly
 245 250 255
 Gly Leu Gly Thr Leu Phe Ile Trp Ala Ser Gly Asn Gly Gly Leu His
 260 265 270
 Tyr Asp Asn Cys Asn Cys Asp Gly Tyr Thr Asn Ser Ile His Thr Leu
 275 280 285
 Ser Val Gly Ser Thr Thr Gln Gln Gly Arg Val Pro Trp Tyr Ser Glu
 290 295 300
 Ala Cys Ala Ser Thr Leu Thr Thr Thr Tyr Ser Ser Gly Val Ala Thr
 305 310 315 320
 Asp Pro Gln Ile Val Thr Thr Asp Leu His His Gly Cys Thr Asp Gln
 325 330 335
 His Thr Gly Thr Ser Ala Ser Ala Pro Leu Ala Ala Gly Met Ile Ala
 340 345 350
 Leu Ala Leu Glu Ala Asn Pro Phe Leu Thr Trp Arg Asp Met Gln His
 355 360 365
 Leu Val Val Arg Ala Ser Lys Pro Ala His Leu Gln Ala Glu Asp Trp
 370 375 380
 Arg Thr Asn Gly Val Gly Arg Gln Gly
 385 390

<210> 5
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 <213> Homo sapiens

<400> 5
 Leu Val Gly Tyr Ala Ile Gln Tyr Gly Cys Ile Ala His Cys Ala Ser
 1 5 10 15
 Glu Tyr Val Gly Gly Val Val Met Cys Ser Gly Pro Ser Met Glu Pro
 20 25 30
 Thr Ile Gln Asn Ser Asp Thr Val Phe Ala Gln Asn Leu Ser Arg His
 35 40 45
 Phe Asp Ser Ile Gln Arg Gly Asp Ile Val Ile Ala Lys Ser Pro Ser
 50 55 60
 Asp Pro Thr Ser Asn Ile Cys Lys Arg Val Thr Gly Leu Glu Gly Asp
 65 70 75 80
 Lys Ile Leu Thr Thr Ser Pro Ser Asp Phe Phe Lys Ser Tyr Ser Tyr
 85 90 95
 Val Pro Val Gly His Val Trp Leu Glu Gly Asp Leu Gln Asn Ser Thr
 100 105 110
 Asp Ser Ser Tyr Tyr Gly Pro Ile Pro Tyr Glu Leu Ile Arg Gly Arg
 115 120 125
 Ile Phe Phe Ile Arg Pro Leu Ser Asp Phe Gly Phe Leu Cys Ala Ser
 130 135 140
 Leu Asn Gly His Arg Phe Ser Asp Asp
 145 150

<210> 6
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 <213> Homo sapiens

<400> 6
 Met Leu Ile Thr Val Tyr Cys Val Arg Arg Asp Leu Ser Glu Val Thr
 1 5 10 15
 Phe Ser Leu Gln Val Ser Pro Asp Phe Glu Leu Arg Asn Phe Lys Val
 20 25 30
 Leu Cys Glu Ala Glu Ser Arg Val Pro Val Glu Glu Ile Gln Ile Ile
 35 40 45

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His	Met	Glu	Arg	Leu	Leu	Ile	Glu	Asp	His	Cys	Ser	Leu	Gly	Ser	Tyr
50						55					60				
Gly	Leu	Lys	Asp	Gly	Asp	Ile	Val	Val	Leu	Leu	Gln	Lys	Asp	Asn	Val
65					70					75					80
Gly	Pro	Arg	Ala	Pro	Gly	Arg	Ala	Pro	Asn	Gln	Pro	Arg	Val	Asp	Phe
				85					90					95	
Ser	Gly	Ile	Ala	Val	Pro	Gly	Thr	Ser	Ser	Ser	Arg	Pro	Gln	His	Pro
			100					105					110		
Gly	Gln	Gln	Gln	Gln	Arg	Thr	Pro	Ala	Ala	Gln	Arg	Ser	Gln	Gly	Leu
		115					120					125			
Ala	Ser	Gly	Glu	Lys	Val	Ala	Gly	Leu	Gln	Gly	Leu	Gly	Ser	Pro	Ala
130						135					140				
Leu	Ile	Arg	Ser	Met	Leu	Leu	Ser	Asn	Pro	His	Asp	Leu	Ser	Leu	Leu
145					150					155					160
Lys	Glu	Arg	Asn	Pro	Pro	Leu	Ala	Glu	Ala	Leu	Leu	Ser	Gly	Ser	Leu
				165					170					175	
Glu	Thr	Phe	Ser	Gln	Val	Leu	Met	Glu	Gln	Gln	Arg	Glu	Lys	Ala	Leu
			180					185					190		
Arg	Glu	Gln	Glu	Arg	Leu	Arg	Leu	Tyr	Thr	Ala	Asp	Pro	Leu	Asp	Arg
		195					200					205			
Glu	Ala	Gln	Ala	Lys	Ile	Glu	Glu	Glu	Ile	Arg	Gln	Gln	Asn	Ile	Glu
	210					215					220				
Glu	Asn	Met	Asn	Ile	Ala	Ile	Glu	Glu	Ala	Pro	Glu	Ser	Phe	Gly	Gln
225					230					235					240
Val	Thr	Met	Leu	Tyr	Ile	Asn	Cys	Lys	Val	Asn	Gly	His	Pro	Leu	Lys
				245					250					255	
Ala	Phe	Val	Asp	Ser	Gly	Ala	Gln	Met	Thr	Ile	Met	Ser	Gln	Ala	Cys
			260					265					270		
Ala	Glu	Arg	Cys	Asn	Ile	Met	Arg	Leu	Val	Asp	Arg	Arg	Trp	Ala	Gly
		275					280					285			
Val	Ala	Lys	Gly	Val	Gly	Thr	Gln	Arg	Ile	Ile	Gly	Arg	Val	His	Leu
	290					295					300				
Ala	Gln	Ile	Gln	Ile	Glu	Gly	Asp	Phe	Leu	Gln	Cys	Ser	Phe	Ser	Ile
305					310					315					320
Leu	Glu	Asp	Gln	Pro	Met	Asp	Met	Leu	Leu	Gly	Leu	Asp	Met	Leu	Arg
				325					330					335	
Arg	His	Gln	Cys	Ser	Ile	Asp	Leu	Lys	Lys	Asn	Val	Leu	Val	Ile	Gly
			340					345					350		
Thr	Thr	Gly	Thr	Gln	Thr	Tyr	Phe	Leu	Pro	Glu	Gly	Glu	Leu	Pro	Leu
		355					360					365			
Cys	Ser	Arg	Met	Val	Ser	Gly	Gln	Asp	Glu	Ser	Ser	Asp	Lys	Glu	Ile
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Thr	His	Ser	Val	Met	Asp	Ser	Gly	Arg	Lys	Glu	His				
385					390					395					

<210> 7

<211> 469

<212> PRT

<213> Homo sapiens

<400> 7

His	Gly	Arg	Val	Leu	Leu	Pro	Leu	Asn	Leu	Gln	Leu	Gly	Ala	Lys	Val
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Ser	Phe	Val	Cys	Asp	Glu	Gly	Phe	Arg	Leu	Lys	Gly	Arg	Ser	Ala	Ser
			20					25					30		
His	Cys	Val	Leu	Ala	Gly	Met	Lys	Ala	Leu	Trp	Asn	Ser	Ser	Val	Pro
		35					40					45			
Val	Cys	Glu	Arg	Ile	Ile	Cys	Gly	Leu	Pro	Pro	Thr	Ile	Ala	Asn	Gly
	50					55					60				
Asp	Phe	Thr	Ser	Ile	Ser	Arg	Glu	Tyr	Phe	His	Tyr	Gly	Ser	Val	Val
65					70					75					80
Thr	Tyr	His	Cys	Asn	Leu	Gly	Ser	Arg	Gly	Lys	Lys	Val	Phe	Glu	Leu
				85					90					95	

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Val Gly Glu Pro Ser Ile Tyr Cys Thr Ser Lys Asp Asp Gln Val Gly
 100 110
 Ile Trp Ser Gly Pro Ala Pro Gln Cys Ile Ile Pro Asn Lys Cys Thr
 115 120 125
 Pro Pro Asn Val Glu Asn Gly Ile Leu Val Ser Asp Asn Arg Ser Leu
 130 135 140
 Phe Ser Leu Asn Glu Val Val Glu Phe Arg Cys Gln Pro Gly Phe Gly
 145 150 155 160
 Met Lys Gly Pro Ser His Val Lys Cys Gln Ala Leu Asn Lys Trp Glu
 165 170 175
 Pro Glu Leu Pro Ser Cys Ser Arg Val Cys Gln Pro Pro Pro Asp Val
 180 185 190
 Leu His Ala Glu Arg Thr Gln Arg Asp Lys Asp Asn Phe Ser Pro Gly
 195 200 205
 Gln Glu Val Phe Tyr Ser Cys Gln Pro Gly Tyr Asp Leu Arg Gly Ser
 210 215 220
 Thr Tyr Leu His Cys Thr Pro Gln Gly Asp Trp Ser Pro Ala Ala Pro
 225 230 235 240
 Arg Cys Glu Val Lys Ser Cys Asp Asp Phe Leu Gly Gln Leu Pro Asn
 245 250 255
 Gly His Val Leu Phe Pro Leu Asn Leu Gln Leu Gly Ala Lys Val Asp
 260 265 270
 Phe Val Cys Asp Glu Gly Phe Gln Leu Lys Gly Ser Ser Ala Ser Tyr
 275 280 285
 Cys Val Leu Ala Gly Met Glu Ser Leu Trp Asn Ser Ser Val Pro Val
 290 295 300
 Cys Glu Arg Lys Ser Cys Glu Thr Pro Pro Val Pro Val Asn Gly Met
 305 310 315 320
 Val His Val Ile Thr Asp Ile His Val Gly Ser Arg Ile Asn Tyr Ser
 325 330 335
 Cys Thr Thr Gly Ser Ala Ser His Cys Val Leu Ala Gly Thr Lys Ala
 340 345 350
 Leu Trp Asn Ser Ser Val Pro Val Cys Glu Gln Ile Phe Cys Pro Asn
 355 360 365
 Pro Pro Ala Ile Leu Asn Gly Arg His Thr Gly Thr Pro Pro Gly Asp
 370 375 380
 Ile Pro Tyr Gly Lys Glu Val Ser Tyr Thr Cys Asp Pro His Pro Asp
 385 390 395 400
 Arg Gly Met Thr Phe Asn Leu Ile Gly Glu Ser Thr Ile Arg Arg Thr
 405 410 415
 Ser Glu Pro His Gly Asn Gly Val Trp Ser Ser Pro Ala Pro Arg Cys
 420 425 430
 Glu Leu Pro Val Gly Ala Val Ile Phe Ser Thr His Leu Ile Thr Leu
 435 440 445
 Phe Tyr Cys Leu Gly Thr Leu Leu Gly Thr Ile Ile Phe Ile Leu Ile
 450 455 460
 Ile Ile Phe Leu Tyr
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<210> 8

<211> 556

<212> PRT

<213> Homo sapiens

<400> 8

Gly Gly Gly Ser Pro Gly Trp Gly Cys Ala Gly Ile Pro Asp Ser Ala
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 Gly Gln Gly Ala Glu Glu Val Gly Glu Ser Ala Gly Gly Gly Glu Glu
 35 40 45
 Arg Arg Val Arg His Pro Gln Ala Pro Ala Leu Arg Leu Leu Asn Arg
 50 55 60

GC773-2-seqlist

Lys 65	Pro	Gln	Gly	Gly	Ser 70	Gly	Glu	Ile	Lys	Thr 75	Pro	Glu	Asn	Asp	Leu 80
Gln	Arg	Gly	Arg	Leu 85	Ser	Arg	Gly	Pro	Arg	Thr	Ala	Pro	Pro	Ala	Pro
Gly	Met	Gly	Asp 100	Arg	Ser	Gly	Gln	Gln 105	Glu	Arg	Ser	Val	Pro 110	His	Ser
Pro	Gly	Ala 115	Pro	Val	Gly	Thr	Ser 120	Ala	Ala	Ala	Val	Asn 125	Gly	Leu	Leu
His	Asn 130	Gly	Phe	His	Pro	Pro 135	Pro	Val	Gln	Pro	Pro 140	His	Val	Cys	Ser
Arg 145	Gly	Pro	Val	Gly	Gly 150	Ser	Asp	Ala	Ala	Pro 155	Gln	Arg	Leu	Pro	Leu 160
Leu	Pro	Glu	Leu	Gln 165	Pro	Gln	Pro	Leu	Leu 170	Pro	Gln	His	Asp	Ser 175	Pro
Ala	Lys	Lys	Cys 180	Arg	Leu	Arg	Arg 185	Met	Asp	Ser	Gly	Arg 190	Lys	Asn	
Arg	Pro	Pro 195	Phe	Pro	Trp	Phe	Gly 200	Met	Asp	Ile	Gly	Gly 205	Thr	Leu	Val
Lys	Leu 210	Val	Tyr	Phe	Glu	Pro 215	Lys	Asp	Ile	Thr	Ala 220	Glu	Glu	Glu	Gln
Glu 225	Glu	Val	Glu	Asn	Leu 230	Lys	Ser	Ile	Arg	Lys 235	Tyr	Leu	Thr	Ser	Asn 240
Thr	Ala	Tyr	Gly	Lys 245	Thr	Gly	Ile	Arg	Asp 250	Val	His	Leu	Glu	Leu	Lys 255
Asn	Leu	Thr	Met 260	Cys	Gly	Arg	Lys	Gly 265	Asn	Leu	His	Phe	Ile 270	Arg	Phe
Pro	Ser	Cys 275	Ala	Met	His	Arg	Phe 280	Ile	Gln	Met	Gly	Ser 285	Glu	Lys	Asn
Phe	Ser 290	Ser	Leu	His	Thr	Thr 295	Leu	Cys	Ala	Thr	Gly 300	Gly	Gly	Ala	Phe
Lys 305	Phe	Glu	Glu	Asp	Phe 310	Arg	Met	Ile	Ala	Asp 315	Leu	Gln	Leu	His	Lys 320
Leu	Asp	Glu	Leu	Asp 325	Cys	Leu	Ile	Gln	Gly 330	Leu	Leu	Tyr	Val	Asp	Ser
Val	Gly	Phe	Asn 340	Gly	Lys	Pro	Glu	Cys 345	Tyr	Tyr	Phe	Glu	Asn 350	Pro	Thr
Asn	Pro	Glu 355	Leu	Cys	Gln	Lys	Lys 360	Pro	Tyr	Cys	Leu	Asp 365	Asn	Pro	Tyr
Pro	Met 370	Leu	Leu	Val	Asn 375	Met	Gly	Ser	Gly	Val	Ser 380	Ile	Leu	Ala	Val
Tyr 385	Ser	Lys	Asp	Asn	Tyr 390	Lys	Arg	Val	Thr	Gly 395	Thr	Ser	Leu	Gly	Gly 400
Gly	Thr	Phe	Leu	Gly 405	Leu	Cys	Cys	Leu	Leu 410	Thr	Gly	Cys	Glu	Thr	Phe
Glu	Glu	Ala	Leu 420	Glu	Met	Ala	Ala	Lys 425	Gly	Asp	Ser	Thr	Asn 430	Val	Asp
Lys	Leu	Val 435	Lys	Asp	Ile	Tyr	Gly 440	Gly	Asp	Tyr	Glu	Arg 445	Phe	Gly	Leu
Gln	Gly 450	Ser	Ala	Val	Ala	Ser 455	Ser	Phe	Gly	Asn	Met 460	Met	Ser	Lys	Glu
Lys 465	Arg	Asp	Ser	Ile	Ser 470	Lys	Glu	Asp	Leu	Ala 475	Arg	Ala	Thr	Leu	Val 480
Thr	Ile	Thr	Asn 485	Asn	Ile	Gly	Ser	Ile	Ala 490	Arg	Met	Cys	Ala	Leu	Asn 495
Glu	Asn	Ile	Asp 500	Arg	Val	Val	Phe	Val 505	Gly	Asn	Phe	Leu	Arg 510	Ile	Asn
Met	Val	Ser 515	Met	Lys	Leu	Leu	Ala 520	Tyr	Ala	Met	Asp	Phe 525	Trp	Ser	Lys
Gly	Gln 530	Leu	Lys	Ala	Leu	Phe 535	Leu	Glu	His	Glu	Gly 540	Tyr	Phe	Gly	Ala
Val 545	Gly	Ala	Leu	Leu	Glu 550	Leu	Phe	Lys	Met	Thr 555	Asp				

GC773-2-seqlist

<210> 9
 <211> 993
 <212> PRT
 <213> Homo sapiens

<400> 9

Met	Arg	Pro	Val	Ala	Leu	Leu	Leu	Leu	Pro	Ser	Leu	Leu	Ala	Leu	Leu
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Ala	His	Gly	Leu	Ser	Leu	Glu	Ala	Pro	Thr	Val	Gly	Lys	Gly	Gln	Ala
			20					25					30		
Pro	Gly	Ile	Glu	Glu	Thr	Asp	Gly	Glu	Leu	Thr	Ala	Ala	Pro	Thr	Pro
		35					40					45			
Glu	Gln	Pro	Glu	Arg	Gly	Val	His	Phe	Val	Thr	Thr	Ala	Pro	Thr	Leu
	50					55					60				
Lys	Leu	Leu	Asn	His	His	Pro	Leu	Leu	Glu	Glu	Phe	Leu	His	Glu	Gly
65				70					75					80	
Leu	Glu	Lys	Gly	Asp	Glu	Glu	Leu	Arg	Pro	Ala	Leu	Ser	Phe	Gln	Pro
			85						90					95	
Asp	Pro	Pro	Ala	Pro	Phe	Thr	Pro	Ser	Ala	Leu	Pro	Arg	Leu	Ala	Asn
			100					105					110		
Gln	Asp	Ser	Arg	Pro	Val	Phe	Thr	Ser	Pro	Thr	Pro	Ala	Met	Gly	Ala
		115					120					125			
Val	Pro	Thr	Gln	Pro	Gln	Ser	Lys	Glu	Gly	Pro	Trp	Ser	Pro	Glu	Ser
	130					135					140				
Glu	Ser	Pro	Met	Leu	Arg	Ile	Thr	Ala	Pro	Leu	Pro	Pro	Gly	Pro	Ser
145					150					155					160
Met	Ala	Val	Pro	Thr	Leu	Gly	Pro	Gly	Glu	Ile	Ala	Ser	Thr	Thr	Pro
				165					170					175	
Pro	Ser	Arg	Ala	Trp	Thr	Pro	Thr	Gln	Glu	Gly	Pro	Gly	Asp	Met	Gly
			180					185					190		
Arg	Pro	Trp	Val	Ala	Glu	Val	Val	Ser	Gln	Gly	Ala	Gly	Ile	Gly	Ile
		195					200						205		
Gln	Gly	Thr	Ile	Thr	Ser	Ser	Thr	Ala	Ser	Gly	Asp	Asp	Glu	Glu	Thr
	210					215					220				
Thr	Thr	Thr	Thr	Thr	Ile	Ile	Thr	Thr	Thr	Ile	Thr	Thr	Val	Gln	Thr
225					230					235					240
Pro	Gly	Pro	Cys	Ser	Trp	Asn	Phe	Ser	Gly	Pro	Glu	Gly	Ser	Leu	Asp
				245					250					255	
Ser	Pro	Thr	Asp	Leu	Ser	Ser	Pro	Thr	Asp	Val	Gly	Leu	Asp	Cys	Phe
			260					265					270		
Phe	Tyr	Ile	Ser	Val	Tyr	Pro	Gly	Tyr	Gly	Val	Glu	Ile	Lys	Val	Gln
		275					280					285			
Asn	Ile	Ser	Leu	Arg	Glu	Gly	Glu	Thr	Val	Thr	Val	Glu	Gly	Leu	Gly
	290					295					300				
Gly	Pro	Asp	Pro	Leu	Pro	Leu	Ala	Asn	Gln	Ser	Phe	Leu	Leu	Arg	Gly
305					310					315					320
Gln	Val	Ile	Arg	Ser	Pro	Thr	His	Gln	Ala	Ala	Leu	Arg	Phe	Gln	Ser
				325					330					335	
Leu	Pro	Pro	Pro	Ala	Gly	Pro	Gly	Thr	Phe	His	Phe	His	Tyr	Gln	Ala
			340					345					350		
Tyr	Leu	Leu	Ser	Cys	His	Phe	Pro	Arg	Arg	Pro	Ala	Tyr	Gly	Asp	Val
		355					360					365			
Thr	Val	Thr	Ser	Leu	His	Pro	Gly	Gly	Ser	Ala	Arg	Phe	His	Cys	Ala
	370					375					380				
Thr	Gly	Tyr	Gln	Leu	Lys	Gly	Ala	Arg	His	Leu	Thr	Cys	Leu	Asn	Ala
385					390					395					400
Thr	Gln	Pro	Phe	Trp	Asp	Ser	Lys	Glu	Pro	Val	Cys	Ile	Ala	Ala	Cys
				405					410					415	
Gly	Gly	Val	Ile	Arg	Asn	Ala	Thr	Thr	Gly	Arg	Ile	Val	Ser	Pro	Gly
			420					425					430		
Phe	Pro	Gly	Asn	Tyr	Ser	Asn	Asn	Leu	Thr	Cys	His	Trp	Leu	Leu	Glu
		435					440					445			
Ala	Pro	Glu	Gly	Gln	Arg	Leu	His	Leu	His	Phe	Glu	Lys	Val	Ser	Leu

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Ala 450	Asp	Asp	Asp	Arg 455	Leu	Ile	Ile	Arg	Asn 460	Gly	Asp	Asn	Val	Glu
465	Glu	Pro	Pro	Val	Tyr 470	Asp	Ser	Tyr	Glu	Val 475	Glu	Tyr	Leu	Pro
Ala	Pro	Pro	Val	Tyr 485	Asp	Ser	Tyr	Glu	Val 490	Glu	Tyr	Leu	Pro	Ile
Gly	Leu	Leu	Ser	Ser	Gly	Lys	His	Phe	Phe	Val	Glu	Leu	Ser	Thr
Ser	Ser	Gly 500	Ala	Ala	Ala	Gly	Met	Ala	Leu	Arg	Tyr	Glu	Ala	Phe
Gln	Gly	His	Cys	Tyr	Glu	Pro	Phe	Val	Lys	Tyr	Gly	Asn	Phe	Ser
Ser 530	Thr	Pro	Thr	Tyr	Pro	Val	Gly	Thr	Thr	Val	Glu	Phe	Ser	Cys
545	Gly	Tyr	Thr	Leu	Glu	Gln	Gly	Ser	Ile	Ile	Glu	Cys	Val	Asp
Pro	Gly	Tyr	Thr	Leu 565	Gln	Trp	Asn	Glu	Thr	Glu	Pro	Ala	Cys	Arg
Pro	His	Asp	Pro	Gln	Trp	Asn	Glu	Thr	Glu	Pro	Ala	Cys	Arg	Ala
Cys	Ser	Gly	Glu	Ile	Thr	Asp	Ser	Ala	Gly	Val	Val	Leu	Pro	Thr
Pro	Glu	Pro	Tyr	Gly	Arg	Gly	Gln	Asp	Ser	Ile	Trp	Gly	Val	His
Glu	Glu	Asp	Lys	Arg	Ile	Met	Leu	Asp	Ile	Arg	Val	Leu	Arg	Ile
625	Gly	Asp	Val	Leu	Thr	Phe	Tyr	Asp	Gly	Asp	Asp	Leu	Thr	Ala
Pro	Gly	Asp	Val	Leu 645	Thr	Phe	Tyr	Asp	Gly	Asp	Asp	Leu	Thr	Ala
Val	Leu	Gly	Gln	Tyr	Ser	Gly	Pro	Arg	Ser	His	Phe	Lys	Leu	Phe
Ser	Met	Ala	Asp	Val	Thr	Ile	Gln	Phe	Gln	Ser	Asp	Pro	Gly	Thr
Val	Leu	Gly	Tyr	Gln	Gln	Gly	Phe	Val	Ile	His	Phe	Phe	Glu	Val
Arg 690	Asn	Asp	Thr	Cys	Pro	Glu	Leu	Pro	Glu	Ile	Pro	Asn	Gly	Trp
705	Pro	Ser	Gln	Pro	Glu	Leu	Val	His	Gly	Thr	Val	Val	Thr	Tyr
Ser	Pro	Ser	Gln	Pro	Glu	Leu	Val	His	Gly	Thr	Val	Val	Thr	Tyr
Cys	Tyr	Pro	Gly	Tyr	Gln	Val	Val	Gly	Ser	Ser	Val	Leu	Met	Cys
Trp	Asp	Leu	Thr	Trp	Ser	Glu	Asp	Leu	Pro	Ser	Cys	Gln	Arg	Val
Ser	Cys	His	Asp	Pro	Gly	Asp	Val	Glu	His	Ser	Arg	Arg	Leu	Ile
Ser 770	Pro	Lys	Phe	Pro	Val	Gly	Ala	Thr	Val	Gln	Tyr	Ile	Cys	Asp
785	Phe	Val	Leu	Met	Gly	Ser	Ser	Ile	Leu	Thr	Cys	His	Asp	Arg
Gly	Phe	Val	Leu	Met 805	Gly	Ser	Ser	Ile	Leu	Thr	Cys	His	Asp	Arg
Ala	Gly	Ser	Pro	Lys	Trp	Ser	Asp	Arg	Ala	Pro	Lys	Cys	Leu	Leu
Gln	Leu	Lys	Pro	Cys	His	Gly	Leu	Ser	Ala	Pro	Glu	Asn	Gly	Ala
Ser	Pro	Glu	Lys	Gln	Leu	His	Pro	Ala	Gly	Ala	Thr	Ile	His	Phe
Cys 850	Ala	Pro	Gly	Tyr	Val	Leu	Lys	Gly	Gln	Ala	Ser	Ile	Lys	Cys
865	Gly	His	Pro	Ser	His	Trp	Ser	Asp	Pro	Pro	Pro	Ile	Cys	Arg
Pro	Gly	His	Pro	Ser	His	Trp	Ser	Asp	Pro	Pro	Pro	Ile	Cys	Arg
Ala	Ser	Leu	Asp	Gly	Phe	Tyr	Asn	Ser	Arg	Ser	Leu	Asp	Val	Ala
Ala	Pro	Ala	Ala	Ser	Ser	Thr	Leu	Asp	Ala	Ala	His	Ile	Ala	Ala
Ile	Phe	Leu	Pro	Leu	Val	Ala	Met	Val	Leu	Leu	Val	Gly	Gly	Val
Phe 930	Tyr	Phe	Ser	Arg	Leu	Gln	Gly	Lys	Ser	Ser	Leu	Gln	Leu	Pro
945	Tyr	Phe	Ser	Arg	Leu 950	Gln	Gly	Lys	Ser	Ser	Leu	Gln	Leu	Pro

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Pro Arg Pro Arg Pro Tyr Asn Arg Ile Thr Ile Glu Ser Ala Phe Asp
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 Asn Pro Thr Tyr Glu Thr Gly Ser Leu Ser Phe Ala Gly Asp Glu Arg
 980 985 990
 Ile

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 20 25 30
 Glu Thr Pro Leu Val Thr Tyr Pro Gly Glu Pro Thr Ser Ser Glu Gln
 35 40 45
 Gly Gly Leu Glu Gly Ser Gly Ser Ala Ala Gly Glu Lys Pro Ala
 50 55 60
 Leu Ser Glu Glu Glu Arg Gln Glu Gln Thr Lys Arg Met Leu Glu Leu
 65 70 75 80
 Val Ala Gln Lys Gln Arg Glu Arg Glu Glu Arg Glu Glu Arg Glu Ala
 85 90 95
 Leu Glu Arg Glu Arg Gln Arg Arg Arg Gln Gly Gln Glu Leu Ser Ala
 100 105 110
 Ala Arg Gln Arg Leu Gln Glu Asp Glu Met Arg Arg Ala Ala Glu Glu
 115 120 125
 Arg Arg Arg Glu Lys Ala Glu Glu Leu Ala Ala Arg Gln Arg Val Arg
 130 135 140
 Glu Lys Ile Glu Arg Asp Lys Ala Glu Arg Ala Lys Lys Tyr Gly Gly
 145 150 155 160
 Ser Val Gly Ser Gln Pro Pro Pro Val Ala Pro Glu Pro Gly Pro Val
 165 170 175
 Pro Ser Ser Pro Ser Gln Glu Pro Pro Pro Lys Arg Glu Tyr Asp Gln
 180 185 190
 Cys Arg Ile Gln Val Arg Leu Pro Asp Gly Thr Ser Leu Thr Gln Thr
 195 200 205
 Phe Arg Ala Arg Glu Gln Leu Ala Ala Val Arg Leu Tyr Val Glu Leu
 210 215 220
 His Arg Gly Glu Glu Leu Gly Gly Gly Gln Asp Pro Val Gln Leu Leu
 225 230 235 240
 Ser Gly Phe Pro Arg Ala Phe Ser Glu Ala Asp Met Glu Arg Pro
 245 250 255
 Leu Gln Glu Leu Gly Leu Val Pro Ser Ala Val Leu Ile Val Ala Lys
 260 265 270
 Lys Cys Pro Ser
 275

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 Leu Asp Ala Val Glu Val Phe Phe Ser Arg Thr Ala Arg Asp Asn Arg
 20 25 30
 Leu Gly Cys Met Phe Val Arg Cys Ala Pro Ser Ser Arg Tyr Thr Leu
 35 40 45
 Leu Phe Ser His Gly Asn Ala Val Asp Leu Gly Gln Met Cys Ser Phe
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      50      55      60
Tyr Ile Gly Leu Gly Ser Arg Ile Asn Cys Asn Ile Phe Ser Tyr Asp
65      70      75      80
Tyr Ser Gly Tyr Gly Val Ser Ser Gly Lys Pro Ser Glu Lys Asn Leu
      85      90      95
Tyr Ala Asp Ile Asp Ala Ala Trp Gln Ala Leu Arg Thr Arg Tyr Gly
100      105      110
Val Ser Pro Glu Asn Ile Ile Leu Tyr Gly Gln Ser Ile Gly Thr Val
115      120      125
Pro Thr Val Asp Leu Ala Ser Arg Tyr Glu Cys Ala Ala Val Ile Leu
130      135      140
His Ser Pro Leu Met Ser Gly Leu Arg Val Ala Phe Pro Asp Thr Arg
145      150      155
Lys Thr Tyr Cys Phe Asp Ala Phe Pro Ser Ile Asp Lys Ile Ser Lys
165      170      175
Val Thr Ser Pro Val Leu Val Ile His Gly Thr Glu Asp Glu Val Ile
180      185      190
Asp Phe Ser His Gly Leu Ala Met Tyr Glu Arg Cys Pro Arg Ala Val
195      200      205
Glu Pro Leu Trp Val Glu Gly Ala Gly His Asn Asp Ile Glu Leu Tyr
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Ala Gln Tyr Leu Glu Arg Leu Lys Gln Phe Ile His Glu Leu Pro Asn
225      230      235
Ser

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20      25      30
Lys Gln Ser Tyr Lys Glu Lys Arg Gly Gly Phe Val Leu Val His Ala
35      40      45
Gly Ala Gly Tyr His Ser Glu Ser Lys Ala Lys Glu Tyr Lys His Val
50      55      60
Cys Lys Arg Ala Cys Gln Lys Ala Ile Glu Lys Leu Gln Ala Gly Ala
65      70      75      80
Leu Ala Thr Asp Ala Val Thr Ala Ala Leu Val Glu Leu Glu Asp Ser
85      90      95
Pro Phe Thr Asn Ala Gly Met Gly Ser Asn Leu Asn Leu Leu Gly Glu
100      105      110
Ile Glu Cys Asp Ala Ser Ile Met Asp Gly Lys Ser Leu Asn Phe Gly
115      120      125
Ala Val Gly Ala Leu Ser Gly Ile Lys Asn Pro Val Ser Val Ala Asn
130      135      140
Arg Leu Leu Cys Glu Gly Gln Lys Gly Lys Leu Ser Ala Gly Arg Ile
145      150      155      160
Pro Pro Cys Phe Leu Val Gly Glu Gly Ala Tyr Arg Trp Ala Val Asp
165      170      175
His Gly Ile Pro Ser Cys Pro Pro Asn Ile Met Thr Thr Arg Phe Ser
180      185      190
Leu Ala Ala Phe Lys Arg Asn Lys Arg Lys Leu Glu Leu Ala Glu Arg
195      200      205
Val Asp Thr Asp Phe Met Gln Leu Lys Lys Arg Arg Gln Ser Ser Glu
210      215      220
Lys Glu Asn Asp Ser Gly Thr Leu Asp Thr Val Gly Ala Val Val Val
225      230      235      240
Asp His Glu Gly Asn Val Ala Ala Ala Val Ser Ser Gly Gly Leu Ala

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Leu	Lys	His	Pro	245	Gly	Arg	Val	Gly	Gln	250	Ala	Ala	Leu	Tyr	Gly	255	Cys	Gly
			260						265						270			
Cys	Trp	Ala	Glu	Asn	Thr	Gly	Ala	His	Asn	Pro	Tyr	Ser	Thr	Ala	Val			
		275					280						285					
Ser	Thr	Ser	Gly	Cys	Gly	Glu	His	Leu	Val	Arg	Thr	Ile	Leu	Ala	Arg			
	290				295						300							
Glu	Cys	Ser	His	Ala	Leu	Gln	Ala	Glu	Asp	Ala	His	Gln	Ala	Leu	Leu			
305					310					315					320			
Glu	Thr	Met	Gln	Asn	Lys	Phe	Ile	Ser	Ser	Pro	Phe	Leu	Ala	Ser	Glu			
			325						330					335				
Asp	Gly	Val	Leu	Gly	Gly	Val	Ile	Val	Leu	Arg	Ser	Cys	Arg	Cys	Ser			
		340						345					350					
Ala	Glu	Pro	Asp	Ser	Ser	Gln	Asn	Lys	Gln	Thr	Leu	Leu	Val	Glu	Phe			
		355					360					365						
Leu	Trp	Ser	His	Thr	Thr	Glu	Ser	Met	Cys	Val	Gly	Tyr	Met	Ser	Ala			
	370					375					380							
Gln	Asp	Gly	Lys	Ala	Lys	Thr	His	Ile	Ser	Arg	Leu	Pro	Pro	Gly	Ala			
385					390					395					400			
Val	Ala	Gly	Gln	Ser	Val	Ala	Ile	Glu	Gly	Gly	Val	Cys	Arg	Leu	Glu			
			405						410					415				
Ser	Pro	Val	Asn															
			420															

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 <213> Homo sapiens

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Lys	Ile	Lys	Asp	Cys	Tyr	Gly	Leu	Gly	Ser	Gly	Gln	Asn	His	Phe	Ile			
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Lys	Asp	Ser	Gln	Trp	Glu	Gln	Gln	Ala	Glu	Ile	Phe	Asn	Ala	Ser	Tyr			
			20					25					30					
Lys	Lys	Tyr	Leu	Asp	Arg	Glu	Trp	Glu	Glu	Glu	Pro	Leu	Ser	Thr	Ala			
		35					40					45						
Thr	Phe	Tyr	Phe	Leu	Leu	Pro	Ser	Cys	Leu	Phe	Ala	Met	Pro	Pro	Glu			
	50					55				60								
Val	Lys	Gly	Pro	Ser	Gly	Met	Ala	Cys	Val	Leu	Gly	Ile	His	Trp	Thr			
65					70					75					80			
Arg	Ser	His	Asn	Phe	Phe	Leu	Tyr	Ser	Leu	Asn	Arg	Thr	Leu	Lys	Asp			
			85						90					95				
Lys	Ala	Asp	Pro	Glu	Gly	Val	Trp	Pro	Cys	Ala	Ala	Pro	Ile	Ala	Val			
			100					105					110					
Ser	Gln	Leu	Ser	Cys	Ser	Ser	Ser	Tyr	Leu	Val	Leu	Ala	Cys	Glu	Asp			
		115					120					125						
Gly	Val	Leu	Thr	Leu	Trp	Asp	Leu	Ala	Lys	Gly	Phe	Pro	Leu	Gly	Val			
	130					135					140							
Ala	Ala	Leu	Pro	Gln	Gly	Cys	Phe	Cys	Gln	Ser	Ile	His	Phe	Leu	Lys			
145					150					155					160			
Tyr	Phe	Ser	Val	His	Lys	Gly	Gln	Asn	Met	Tyr	Pro	Glu	Gly	Gln	Val			
				165					170					175				
Lys	Ser	Gln	Met	Lys	Cys	Val	Val	Leu	Cys	Thr	Asp	Ala	Ser	Leu	His			
			180					185					190					
Leu	Val	Glu	Ala	Ser	Gly	Thr	Gln	Gly	Pro	Thr	Ile	Ser	Val	Leu	Val			
		195					200						205					
Glu	Arg	Pro	Val	Lys	His	Leu	Asp	Lys	Thr	Ile	Cys	Ala	Val	Ala	Pro			
	210					215					220							
Val	Pro	Ala	Leu	Pro	Gly	Met	Val	Leu	Ile	Phe	Ser	Lys	Asn	Gly	Ser			
225					230					235					240			
Val	Cys	Leu	Met	Asp	Val	Ala	Lys	Arg	Glu	Ile	Ile	Cys	Ala	Phe	Ala			
				245					250					255				
Pro	Pro	Gly	Ala	Phe	Pro	Leu	Glu	Val	Pro	Trp	Lys	Pro	Val	Phe	Ala			

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Val	Ser	Pro	260	His	Pro	Cys	Phe	265	Leu	Leu	Arg	Gly	Asp	270	Tyr	Ser	His
		275	Asp				280	Leu					285				
Glu	Thr	Ala	Ser	Thr	Asp	Asp	Ala	Gly	Ile	Gln	Tyr	Ser	Val	Phe	Tyr		
	290					295					300						
Phe	Asn	Phe	Glu	Ala	Cys	Pro	Leu	Leu	Glu	Asn	Ile	Ser	Lys	Asn	Cys		
305					310					315					320		
Thr	Ile	Pro	Gln	Arg	Asp	Leu	Asp	Asn	Met	Ala	Phe	Pro	Gln	Ala	Leu		
			325						330					335			
Pro	Leu	Glu	Lys	Arg	Cys	Glu	Arg	Phe	Leu	Gln	Lys	Ser	Tyr	Arg	Lys		
			340					345					350				
Leu	Glu	Lys	Asn	Pro	Glu	Lys	Glu	Glu	Glu	His	Trp	Ala	Arg	Leu	Gln		
		355					360						365				
Arg	Tyr	Ser	Leu	Ser	Leu	Gln	Arg	Glu	Asn	Phe	Lys	Lys					
370						375					380						

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 <212> PRT
 <213> Homo sapiens

Met	Gly	Lys	Gly	Tyr	Tyr	Leu	Lys	Gly	Lys	Ile	Gly	Lys	Val	Pro	Val
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			20					25					30		
Leu	Trp	Glu	Glu	Val	Thr	Asp	Gly	Asp	Leu	Asp	Thr	Leu	Gln	Pro	Phe
		35					40					45			
Glu	Asn	Val	Val	Lys	Val	Ala	Asn	Gly	Ala	Glu	Met	Lys	Ile	Leu	Gly
		50				55					60				
Val	Trp	Asp	Thr	Ala	Val	Ser	Leu	Gly	Lys	Leu	Lys	Leu	Lys	Ala	Gln
65					70					75					80
Phe	Leu	Val	Ala	Asn	Ala	Ser	Ala	Glu	Glu	Ala	Ile	Ile	Gly	Thr	Asp
				85					90					95	
Leu	Gln	Asp	His	Asn	Ala	Ile	Leu	Asp	Phe	Glu	His				
			100					105							

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 <212> PRT
 <213> Homo sapiens

Met	Ser	Phe	Ile	Cys	Gly	Leu	Gln	Ser	Ala	Ala	Arg	Asn	His	Val	Phe
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Phe	Arg	Phe	Asn	Ser	Leu	Ser	Asn	Trp	Arg	Lys	Cys	Asn	Thr	Leu	Ala
			20					25					30		
Ser	Thr	Ser	Arg	Gly	Cys	His	Gln	Val	Gln	Val	Asn	His	Ile	Val	Asn
		35					40					45			
Lys	Tyr	Gln	Gly	Leu	Gly	Val	Asn	Gln	Cys	Asp	Arg	Trp	Ser	Phe	Leu
		50				55					60				
Pro	Gly	Asn	Phe	His	Phe	Tyr	Ser	Thr	Phe	Asn	Asn	Lys	Arg	Thr	Gly
65					70					75					80
Gly	Leu	Ser	Ser	Thr	Lys	Ser	Lys	Glu	Ile	Trp	Arg	Ile	Thr	Ser	Lys
				85					90					95	
Cys	Thr	Val	Trp	Asn	Asp	Ala	Phe	Ser	Arg	Gln	Leu	Leu	Ile	Lys	Glu
			100					105					110		
Val	Thr	Ala	Val	Pro	Ser	Leu	Ser	Val	Leu	His	Pro	Leu	Ser	Pro	Ala
		115						120				125			
Ser	Ile	Arg	Ala	Ile	Arg	Asn	Phe	His	Thr	Ser	Pro	Arg	Phe	Gln	Ala
		130				135						140			
Ala	Pro	Val	Pro	Leu	Leu	Leu	Met	Ile	Leu	Lys	Pro	Val	Gln	Lys	Leu
145					150					155					160

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Phe Ala Ile Ile Val Gly Arg Gly Ile Arg Lys Trp Trp Gln Ala Leu
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Pro Pro Asn Lys Lys Glu Val Val Lys Glu Asn Ile Arg Lys Asn Lys
180 185 190
Trp Lys Leu Phe Leu Gly Leu Ser Ser Phe Gly Leu Leu Phe Val Val
195 200 205
Phe Tyr Phe Thr His Leu Glu Val Ser Pro Ile Thr Gly Arg Ser Lys
210 215 220
Leu Leu Leu Leu Gly Lys Glu Gln Phe Arg Leu Leu Ser Glu Leu Glu
225 230 235 240
Tyr Glu Ala Trp Met Glu Glu Phe Lys Asn Asp Met Leu Thr Glu Lys
245 250 255
Asp Ala Arg Tyr Leu Ala Val Lys Glu Val Leu Cys His Leu Ile Glu
260 265 270
Cys Asn Lys Asp Val Pro Gly Ile Ser Gln Ile Asn Trp Val Ile His
275 280 285
Val Val Asp Ser Pro Ile Ile Asn Ala Phe Val Leu Pro Asn Gly Gln
290 295 300
Met Phe Val Phe Thr Gly Phe Leu Asn Ser Val Thr Asp Ile His Gln
305 310 315 320
Leu Ser Phe Leu Leu Gly His Glu Ile Ala His Ala Val Leu Gly His
325 330 335
Ala Ala Glu Lys Ala Gly Met Val His Leu Leu Asp Phe Leu Gly Met
340 345 350
Ile Phe Leu Thr Met Ile Trp Ala Ile Cys Pro Arg Asp Ser Leu Ala
355 360 365
Leu Leu Cys Gln Trp Ile Gln Ser Lys Leu Gln Glu Tyr Met Phe Asn
370 375 380
Arg Pro Tyr Ser Arg Lys Leu Glu Ala Glu Ala Asp Lys Ile Gly Leu
385 390 395 400
Leu Leu Ala Ala Lys Ala Cys Ala Asp Ile Arg Ala Ser Ser Val Phe
405 410 415
Trp Gln Gln Met Glu Phe Val Asp Ser Leu His Gly Gln Pro Lys Met
420 425 430
Pro Glu Trp Leu Ser Thr His Pro Ser His Gly Asn Arg Val Glu Tyr
435 440 445
Leu Asp Arg Leu Ile Pro Gln Ala Leu Lys Ile Arg Glu Met Cys Asn
450 455 460
Cys Pro Pro Leu Ser Asn Pro Asp Pro Arg Leu Leu Phe Lys Leu Ser
465 470 475 480
Thr Lys His Phe Leu Glu Glu Ser Glu Lys Glu Asp Leu Asn Ile Thr
485 490 495
Lys Lys Gln Lys Met Asp Thr Leu Pro Ile Gln Lys Gln Glu Gln Ile
500 505 510
Pro Leu Thr Tyr Ile Val Glu Lys Arg Thr
515 520

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<212> PRT

<213> Homo sapiens

<400> 16

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35 40 45
His Leu Ser Glu Arg Ala Asp Trp Gln Tyr Ser Ser Arg Glu Lys Asp
50 55 60
Ala Ile Glu Cys Phe Met Thr Arg Thr Ser Lys Gly Asn Arg Ile Ala
65 70 75 80

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Cys Met Phe Val Arg Cys Ser Pro Asn Ala Lys Tyr Thr Leu Leu Phe
 85 90 95
 Ser His Gly Asn Ala Val Asp Leu Gly Gln Met Ser Ser Phe Tyr Ile
 100 105 110
 Gly Leu Gly Ser Arg Ile Asn Cys Asn Ile Phe Ser Tyr Asp Tyr Ser
 115 120 125
 Gly Tyr Gly Ala Ser Ser Gly Lys Pro Thr Glu Lys Asn Leu Tyr Ala
 130 135 140
 Asp Ile Glu Ala Ala Trp Leu Ala Leu Arg Thr Arg Tyr Ile Arg Pro
 145 150 155 160
 Glu Asn Val Ile Ile Tyr Gly Gln Ser Ile Gly Thr Val Pro Ser Val
 165 170 175
 Asp Leu Ala Ala Arg Tyr Glu Ser Ala Ala Val Ile Leu His Ser Pro
 180 185 190
 Leu Thr Ser Gly Met Arg Val Ala Phe Pro Asp Thr Lys Lys Thr Tyr
 195 200 205
 Cys Phe Asp Ala Phe Pro Asn Ile Asp Lys Ile Ser Lys Ile Thr Ser
 210 215 220
 Pro Val Leu Ile Ile His Gly Thr Glu Asp Glu Val Ile Asp Phe Ser
 225 230 235 240
 His Gly Leu Ala Leu Phe Glu Arg Cys Gln Arg Pro Val Glu Pro Leu
 245 250 255
 Trp Val Glu Gly Ala Gly His Asn Asp Val Glu Leu Tyr Gly Gln Tyr
 260 265 270
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 275 280 285

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<211> 1513

<212> PRT

<213> Homo sapiens

<400> 17

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 35 40 45
 Cys Phe Thr Gln Leu Val Leu Ser Ala Leu Pro His Ala Leu Leu Ala
 50 55 60
 Val Leu Ser Ala Cys Tyr Leu Gly Thr Pro Arg Ser Pro Asp Tyr Ile
 65 70 75 80
 Leu Pro Cys Ser Pro Gly Trp Arg Leu Arg Leu Ala Ala Ser Phe Leu
 85 90 95
 Leu Ser Val Phe Pro Leu Leu Asp Leu Leu Pro Val Ala Leu Pro Pro
 100 105 110
 Gly Ala Gly Pro Gly Pro Ile Gly Leu Glu Val Leu Ala Gly Cys Val
 115 120 125
 Ala Ala Val Ala Trp Ile Ser His Ser Leu Ala Leu Trp Val Leu Ala
 130 135 140
 His Ser Pro His Gly His Ser Arg Gly Pro Leu Ala Leu Ala Leu Val
 145 150 155 160
 Ala Leu Leu Pro Ala Pro Ala Leu Val Leu Thr Val Leu Trp His Cys
 165 170 175
 Gln Arg Gly Thr Leu Leu Pro Pro Leu Pro Gly Pro Met Ala Arg
 180 185 190
 Leu Cys Leu Leu Ile Leu Gln Leu Ala Ala Leu Leu Ala Tyr Ala Leu
 195 200 205
 Gly Trp Ala Ala Pro Gly Gly Pro Arg Glu Pro Trp Ala Gln Glu Pro
 210 215 220
 Leu Leu Pro Glu Asp Gln Glu Pro Glu Val Ala Glu Asp Gly Glu Ser
 225 230 235 240

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Trp	Leu	Ser	Arg	Phe 245	Ser	Tyr	Ala	Trp	Leu 250	Ala	Pro	Leu	Leu	Ala	Arg
Gly	Ala	Cys	Gly 260	Glu	Leu	Arg	Gln	Pro 265	Gln	Asp	Ile	Cys	Arg 270	Leu	Pro
His	Arg	Leu 275	Gln	Pro	Thr	Tyr	Leu 280	Ala	Arg	Val	Phe	Gln 285	Ala	His	Trp
Gln	Glu	Gly	Ala	Arg	Leu	Trp 295	Arg	Ala	Leu	Tyr	Gly 300	Ala	Phe	Gly	Arg
Cys 305	Tyr	Leu	Ala	Leu	Gly 310	Leu	Leu	Lys	Leu	Val 315	Gly	Thr	Met	Leu	Gly 320
Phe	Ser	Gly	Pro	Leu 325	Leu	Leu	Ser	Leu	Leu 330	Val	Gly	Phe	Leu	Glu 335	Glu
Gly	Gln	Glu	Pro 340	Leu	Ser	His	Gly	Leu 345	Leu	Tyr	Ala	Leu	Gly 350	Leu	Ala
Gly	Gly	Ala 355	Val	Leu	Gly	Ala	Val 360	Leu	Gln	Asn	Gln	Tyr 365	Gly	Tyr	Glu
Val	Tyr 370	Lys	Val	Thr	Leu	Gln 375	Ala	Arg	Gly	Ala	Val 380	Leu	Asn	Ile	Leu
Tyr 385	Cys	Lys	Ala	Leu	Gln 390	Leu	Gly	Pro	Ser	Arg 395	Pro	Pro	Thr	Gly	Glu 400
Ala	Leu	Asn	Leu	Leu 405	Gly	Thr	Asp	Ser	Glu 410	Arg	Leu	Leu	Asn	Phe 415	Ala
Gly	Ser	Phe	His 420	Glu	Ala	Trp	Gly	Leu 425	Pro	Leu	Gln	Leu	Ala 430	Ile	Thr
Leu	Tyr	Leu 435	Leu	Tyr	Gln	Gln	Val 440	Gly	Val	Ala	Phe	Val 445	Gly	Gly	Leu
Ile	Leu 450	Ala	Leu	Leu	Leu	Val 455	Pro	Val	Asn	Lys	Val 460	Ile	Ala	Thr	Arg
Ile 465	Met	Ala	Ser	Asn 470	Gln	Glu	Met	Leu	Gln	His 475	Lys	Asp	Ala	Arg	Val 480
Lys	Leu	Val	Thr	Glu 485	Leu	Leu	Ser	Gly	Ile 490	Arg	Val	Ile	Lys	Phe 495	Cys
Gly	Trp	Glu	Gln 500	Ala	Leu	Gly	Ala	Arg 505	Val	Glu	Ala	Cys	Arg 510	Ala	Arg
Glu	Leu	Gly 515	Arg	Leu	Arg	Val	Ile 520	Lys	Tyr	Leu	Asp	Ala 525	Ala	Cys	Val
Tyr	Leu 530	Trp	Ala	Ala	Leu	Pro 535	Val	Val	Ile	Ser	Ile 540	Val	Ile	Phe	Ile
Thr 545	Tyr	Val	Leu	Met 550	Gly	His	Gln	Leu	Thr	Ala 555	Thr	Lys	Val	Phe	Thr 560
Ala	Leu	Ala	Leu	Val 565	Arg	Met	Leu	Ile	Leu 570	Pro	Leu	Asn	Asn	Phe 575	Pro
Trp	Val	Ile	Asn 580	Gly	Leu	Leu	Glu	Ala 585	Lys	Val	Ser	Leu	Asp 590	Arg	Ile
Gln	Leu	Phe 595	Leu	Asp	Leu	Pro	Asn 600	His	Asn	Pro	Gln	Ala 605	Tyr	Tyr	Ser
Pro	Asp 610	Pro	Pro	Ala	Glu	Pro 615	Ser	Thr	Val	Leu	Glu 620	Leu	His	Gly	Ala
Leu 625	Phe	Ser	Trp	Asp	Pro 630	Val	Gly	Thr	Ser	Leu 635	Glu	Thr	Phe	Ile	Ser 640
His	Leu	Glu	Val	Lys 645	Lys	Gly	Met	Leu	Val 650	Gly	Ile	Val	Gly	Lys 655	Val
Gly	Cys	Gly	Lys 660	Ser	Ser	Leu	Leu	Ala 665	Ala	Ile	Ala	Gly	Glu 670	Leu	His
Arg	Leu	Arg 675	Gly	His	Val	Ala	Val 680	Arg	Gly	Leu	Ser	Lys 685	Gly	Phe	Gly
Leu	Ala 690	Thr	Gln	Glu	Pro	Trp 695	Ile	Gln	Phe	Ala	Thr 700	Ile	Arg	Asp	Asn
Ile 705	Leu	Phe	Gly	Lys	Thr 710	Phe	Asp	Ala	Gln	Leu 715	Tyr	Lys	Glu	Val	Leu 720
Glu	Ala	Cys	Ala	Leu 725	Asn	Asp	Asp	Leu	Ser 730	Ile	Leu	Pro	Ala	Gly 735	Asp
Gln	Thr	Glu	Val	Gly	Glu	Lys	Gly	Val	Thr	Leu	Ser	Gly	Gly	Gln	Arg

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Ala	Arg	Ile	740	Ala	Leu	Ala	Arg	Ala	745	Val	Tyr	Gln	Glu	Lys	750	Glu	Leu	Tyr
		755						760						765				
Leu	Leu	Asp	Asp	Pro	Leu	Ala	Ala	Val	Asp	Ala	Asp	Val	Ala	Asn	His			
		770				775						780						
Leu	Leu	His	Arg	Cys	Ile	Leu	Gly	Met	Leu	Ser	Tyr	Thr	Thr	Arg	Leu			
785					790					795					800			
Leu	Cys	Thr	His	Arg	Thr	Glu	Tyr	Leu	Glu	Arg	Ala	Asp	Ala	Val	Leu			
				805					810					815				
Leu	Met	Glu	Ala	Gly	Arg	Leu	Ile	Arg	Ala	Gly	Pro	Pro	Ser	Glu	Ile			
			820					825						830				
Leu	Pro	Leu	Val	Gln	Ala	Val	Pro	Lys	Ala	Trp	Ala	Glu	Asn	Gly	Gln			
		835					840						845					
Glu	Ser	Asp	Ser	Ala	Thr	Ala	Gln	Ser	Val	Gln	Asn	Pro	Glu	Lys	Thr			
		850				855					860							
Lys	Glu	Gly	Leu	Glu	Glu	Glu	Gln	Ser	Thr	Ser	Gly	Arg	Leu	Leu	Gln			
865					870					875					880			
Glu	Glu	Ser	Lys	Lys	Glu	Gly	Ala	Val	Ala	Leu	His	Val	Tyr	Gln	Ala			
			885						890					895				
Tyr	Trp	Lys	Ala	Val	Gly	Gln	Gly	Leu	Ala	Leu	Ala	Ile	Leu	Phe	Ser			
			900					905						910				
Leu	Leu	Leu	Met	Gln	Ala	Thr	Arg	Asn	Ala	Ala	Asp	Trp	Trp	Leu	Ser			
		915					920					925						
His	Trp	Ile	Ser	Gln	Leu	Lys	Ala	Glu	Asn	Ser	Ser	Gln	Glu	Ala	Gln			
		930				935					940							
Pro	Ser	Thr	Ser	Pro	Ala	Ser	Met	Gly	Leu	Phe	Ser	Pro	Gln	Leu	Leu			
945					950					955					960			
Leu	Phe	Ser	Pro	Gly	Asn	Leu	Tyr	Ile	Pro	Val	Phe	Pro	Leu	Pro	Lys			
				965					970					975				
Ala	Ala	Pro	Asn	Gly	Ser	Ser	Asp	Ile	Arg	Phe	Tyr	Leu	Thr	Val	Tyr			
			980					985						990				
Ala	Thr	Ile	Ala	Gly	Val	Asn	Ser	Leu	Cys	Thr	Leu	Leu	Arg	Ala	Val			
		995					1000					1005						
Leu	Phe	Ala	Ala	Gly	Thr	Leu	Gln	Ala	Ala	Ala	Thr	Leu	His	Arg	Arg			
		1010				1015					1020							
Leu	Leu	His	Arg	Val	Leu	Met	Ala	Pro	Val	Thr	Phe	Phe	Asn	Ala	Thr			
1025					1030					1035					1040			
Pro	Thr	Gly	Arg	Ile	Leu	Asn	Arg	Phe	Ser	Ser	Asp	Val	Ala	Cys	Ala			
			1045						1050					1055				
Asp	Asp	Ser	Leu	Pro	Phe	Ile	Leu	Asn	Ile	Leu	Leu	Ala	Asn	Ala	Ala			
			1060					1065					1070					
Gly	Leu	Leu	Gly	Leu	Leu	Ala	Val	Leu	Gly	Ser	Gly	Leu	Pro	Trp	Leu			
		1075					1080					1085						
Leu	Leu	Leu	Leu	Pro	Pro	Leu	Ser	Ile	Met	Tyr	Tyr	His	Val	Gln	Arg			
		1090				1095					1100							
His	Tyr	Arg	Ala	Ser	Ser	Arg	Glu	Leu	Arg	Arg	Leu	Gly	Ser	Leu	Thr			
1105					1110					1115					1120			
Leu	Ser	Pro	Leu	Tyr	Ser	His	Leu	Ala	Asp	Thr	Leu	Ala	Gly	Leu	Ser			
			1125						1130					1135				
Val	Leu	Arg	Ala	Thr	Gly	Ala	Thr	Tyr	Arg	Phe	Glu	Glu	Glu	Asn	Leu			
			1140					1145					1150					
Arg	Leu	Leu	Glu	Leu	Asn	Gln	Arg	Cys	Gln	Phe	Ala	Thr	Ser	Ala	Thr			
		1155					1160					1165						
Met	Gln	Trp	Leu	Asp	Ile	Arg	Leu	Gln	Leu	Met	Gly	Ala	Ala	Val	Val			
		1170				1175					1180							
Ser	Ala	Ile	Ala	Gly	Ile	Ala	Leu	Val	Gln	His	Gln	Gln	Gly	Leu	Ala			
1185					1190					1195				1200				
Asn	Pro	Gly	Leu	Val	Gly	Leu	Ser	Leu	Ser	Tyr	Ala	Leu	Ser	Leu	Thr			
			1205						1210					1215				
Gly	Leu	Leu	Ser	Gly	Leu	Val	Ser	Ser	Phe	Thr	Gln	Thr	Glu	Ala	Met			
			1220					1225					1230					
Leu	Val	Ser	Val	Glu	Arg	Leu	Glu	Glu	Tyr	Thr	Cys	Asp	Leu	Pro	Gln			
		1235					1240					1245						

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Glu Pro Gln Gly Gln Pro Leu Gln Leu Gly Thr Gly Trp Leu Thr Gln
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 Gly Gly Val Glu Phe Gln Asp Val Val Leu Ala Tyr Arg Pro Gly Leu
 1265 1270 1275 1280
 Pro Asn Ala Leu Asp Gly Val Thr Phe Cys Val Gln Pro Gly Glu Lys
 1285 1290 1295
 Leu Gly Ile Val Gly Arg Thr Gly Ser Gly Lys Ser Ser Leu Leu Leu
 1300 1305 1310
 Val Leu Phe Arg Leu Leu Glu Pro Ser Ser Gly Arg Val Leu Leu Asp
 1315 1320 1325
 Gly Val Asp Thr Ser Gln Leu Glu Leu Ala Gln Leu Arg Ser Gln Leu
 1330 1335 1340
 Ala Ile Ile Pro Gln Glu Pro Phe Leu Phe Ser Gly Thr Val Arg Glu
 1345 1350 1355 1360
 Asn Leu Asp Pro Gln Gly Leu His Lys Asp Arg Ala Leu Trp Gln Ala
 1365 1370 1375
 Leu Lys Gln Cys His Leu Ser Glu Val Ile Thr Ser Met Gly Gly Leu
 1380 1385 1390
 Asp Gly Glu Leu Gly Glu Gly Gly Arg Ser Leu Ser Leu Gly Gln Arg
 1395 1400 1405
 Gln Leu Leu Cys Leu Ala Arg Ala Leu Leu Thr Asp Ala Lys Ile Leu
 1410 1415 1420
 Cys Ile Asp Glu Ala Thr Ala Ser Val Asp Gln Lys Thr Asp Gln Leu
 1425 1430 1435 1440
 Leu Gln Gln Thr Ile Cys Lys Arg Phe Ala Asn Lys Thr Val Leu Thr
 1445 1450 1455
 Ile Ala His Arg Leu Asn Thr Ile Leu Asn Ser Asp Arg Val Leu Val
 1460 1465 1470
 Leu Gln Ala Gly Arg Val Val Glu Leu Asp Ser Pro Ala Thr Leu Arg
 1475 1480 1485
 Asn Gln Pro His Ser Leu Phe Gln Gln Leu Leu Gln Ser Ser Gln Gln
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 Gly Val Pro Ala Ser Leu Gly Gly Pro
 1505 1510

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<211> 282

<212> PRT

<213> Homo sapiens

<400> 18

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 Ala Leu His Leu Ser Val Pro Arg Pro Ala Ala Arg Val Ala Leu Val
 35 40 45
 Leu Ser Gly Cys Gly Val Tyr Asp Gly Thr Glu Ile His Glu Ala Ser
 50 55 60
 Ala Ile Leu Val His Leu Ser Arg Gly Gly Ala Glu Val Gln Ile Phe
 65 70 75 80
 Ala Pro Asp Val Pro Gln Met His Val Ile Asp His Thr Lys Gly Gln
 85 90 95
 Pro Ser Glu Gly Glu Ser Arg Asn Val Leu Thr Glu Ser Ala Arg Ile
 100 105 110
 Ala Arg Gly Lys Ile Thr Asp Leu Ala Asn Leu Ser Ala Asn His
 115 120 125
 Asp Ala Ala Ile Phe Pro Gly Gly Phe Gly Ala Ala Lys Asn Leu Ser
 130 135 140
 Thr Phe Ala Val Asp Gly Lys Asp Cys Lys Val Asn Lys Glu Val Glu
 145 150 155 160
 Arg Val Leu Lys Glu Phe His Gln Ala Gly Lys Pro Ile Gly Leu Cys
 165 170 175

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Cys Ile Ala Pro Val Leu Ala Ala Lys Val Leu Arg Gly Val Glu Val
 180 185 190
 Thr Val Gly His Glu Gln Glu Glu Gly Gly Lys Trp Pro Tyr Ala Gly
 195 200 205
 Thr Ala Glu Ala Ile Lys Ala Leu Gly Ala Lys His Cys Val Lys Glu
 210 215 220
 Val Ser Leu Arg Ser Val Leu Gly Gly Phe Phe Arg Asn Ser Ala His
 225 230 235 240
 Glu Ala His Val Asp Gln Lys Asn Lys Val Val Thr Thr Pro Ala Phe
 245 250 255
 Met Cys Glu Thr Ala Leu His Tyr Ile His Asp Gly Ile Gly Ala Met
 260 265 270
 Val Arg Lys Val Leu Glu Leu Thr Gly Lys
 275 280

<210> 19
 <211> 297
 <212> PRT
 <213> Homo sapiens

<400> 19
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 35 40 45
 Asp Glu Pro Leu Glu Thr Pro Leu Gly His Ile Leu Gly Arg Glu Pro
 50 55 60
 Thr Ser Ser Glu Gln Gly Gly Leu Glu Gly Ser Gly Ser Ala Ala Gly
 65 70 75 80
 Glu Gly Lys Pro Ala Leu Ser Glu Glu Glu Arg Gln Glu Gln Thr Lys
 85 90 95
 Arg Met Leu Glu Leu Val Ala Gln Lys Gln Arg Glu Arg Glu Glu Arg
 100 105 110
 Glu Glu Arg Glu Ala Leu Glu Arg Glu Arg Gln Arg Arg Gln Gly
 115 120 125
 Gln Glu Leu Ser Ala Ala Arg Gln Arg Leu Gln Glu Asp Glu Met Arg
 130 135 140
 Arg Ala Ala Glu Glu Arg Arg Arg Glu Lys Ala Glu Glu Leu Ala Ala
 145 150 155 160
 Arg Gln Arg Val Arg Glu Lys Ile Glu Arg Asp Lys Ala Glu Arg Ala
 165 170 175
 Lys Lys Tyr Gly Gly Ser Val Gly Ser Gln Pro Pro Pro Val Ala Pro
 180 185 190
 Glu Pro Gly Pro Val Pro Ser Ser Pro Ser Gln Glu Pro Pro Thr Lys
 195 200 205
 Arg Glu Tyr Asp Gln Cys Arg Ile Gln Val Arg Leu Pro Asp Gly Thr
 210 215 220
 Ser Leu Thr Gln Thr Phe Arg Ala Arg Glu Gln Leu Ala Ala Val Arg
 225 230 235 240
 Leu Tyr Val Glu Leu His Arg Gly Glu Glu Leu Gly Gly Gly Gln Asp
 245 250 255
 Pro Val Gln Leu Leu Ser Gly Phe Pro Arg Arg Ala Phe Ser Glu Ala
 260 265 270
 Asp Met Glu Arg Pro Leu Gln Glu Leu Gly Leu Val Pro Ser Ala Val
 275 280 285
 Leu Ile Val Ala Lys Lys Cys Pro Ser
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 <212> PRT

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<213> Homo sapiens

<400> 20

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 20 25 30
 Gly Ala Ser Gly Asp Met Asn Leu Pro His Leu Met Ser Leu Ala Ser
 35 40 45
 His Leu Ala Ser His Gly Phe Phe Cys Leu Arg Phe Thr Cys Lys Gly
 50 55 60
 Leu Asn Ile Val His Arg Ile Lys Ala Tyr Lys Ser Val Leu Asn Tyr
 65 70 75 80
 Leu Lys Thr Ser Gly Glu Tyr Lys Leu Ala Gly Val Phe Leu Gly Gly
 85 90 95
 Arg Ser Met Gly Ser Arg Ala Ala Ala Ser Val Met Cys His Ile Glu
 100 105 110
 Pro Asp Asp Gly Asp Asp Phe Val Arg Gly Leu Ile Cys Ile Ser Tyr
 115 120 125
 Pro Leu His His Pro Lys Gln His Lys Leu Arg Asp Glu Asp Leu
 130 135 140
 Phe Arg Leu Lys Glu Pro Val Leu Phe Val Ser Gly Ser Ala Asp Glu
 145 150 155 160
 Met Cys Glu Lys Asn Leu Leu Glu Lys Val Ala Gln Lys Met Gln Ala
 165 170 175
 Pro His Lys Ile His Trp Ile Glu Lys Ala Asn His Ser Met Ala Val
 180 185 190
 Lys Gly Arg Ser Thr Asn Asp Val Phe Lys Glu Ile Asn Thr Gln Ile
 195 200 205
 Leu Phe Trp Ile Gln Glu Ile Thr Glu Met Asp Lys Lys
 210 215 220

<210> 21

<211> 305

<212> PRT

<213> Homo sapiens

<400> 21

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 20 25 30
 Ala Thr Tyr Ser Leu Val Thr Glu Pro Glu Pro Gly Pro Gly Ala
 35 40 45
 Gly Ala Ala Pro Leu Gly Thr Leu Arg Ala Ser Ser Gly Ala Pro Gly
 50 55 60
 Arg Trp Lys Leu His Leu Thr Glu Arg Ala Asp Phe Gln Tyr Ser Gln
 65 70 75 80
 Arg Glu Leu Asp Thr Ile Glu Val Phe Pro Thr Lys Ser Ala Arg Arg
 85 90 95
 Asn Arg Val Ser Cys Met Tyr Val Arg Cys Val Thr Gly Ala Arg Tyr
 100 105 110
 Thr Val Leu Phe Ser His Ser Asn Ala Val Asp Leu Gly Gln Met Ser
 115 120 125
 Ser Phe Tyr Ile Gly Leu Gly Ser Arg Leu His Cys Asn Ile Phe Ser
 130 135 140
 Tyr Asp Tyr Ser Gly Tyr Gly Ala Ser Ser Gly Arg Pro Ser Glu Arg
 145 150 155 160
 Asn Leu Tyr Ala Asp Ile Asp Ala Ala Trp Gln Ala Leu Arg Thr Arg
 165 170 175
 Tyr Gly Ile Ser Pro Asp Ser Ile Ile Leu Tyr Gly Gln Ser Ile Gly
 180 185 190
 Thr Val Pro Thr Val Asp Leu Ala Ser Arg Tyr Glu Cys Ala Ala Val
 195 200 205

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195 200 205
 Val Leu His Ser Pro Leu Thr Ser Gly Met Arg Val Ala Phe Pro Asp
 210 215 220
 Thr Lys Lys Thr Tyr Cys Phe Asp Ala Phe Pro Asn Ile Glu Lys Val
 225 230 235 240
 Ser Lys Ile Thr Ser Pro Val Leu Ile Ile His Gly Thr Glu Asp Glu
 245 250 255
 Val Ile Asp Phe Ser His Gly Leu Ala Leu Tyr Glu Arg Cys Pro Lys
 260 265 270
 Ala Val Glu Pro Leu Trp Val Glu Gly Thr Arg His Asn Asp Ile Glu
 275 280 285
 Leu Tyr Ser Gln Tyr Leu Glu Gly Leu Arg Arg Phe Ile Ser Gln Glu
 290 295 300
 Leu
 305

<210> 22
 <211> 243
 <212> PRT
 <213> Homo sapiens

<400> 22
 Ala Gln Gly Lys Asp Gln Met Trp Tyr Glu Asp Ala Leu Ala Ser Ser
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 35 40 45
 Phe Asp Tyr Arg Gly Trp Gly Asp Ser Val Gly Thr Pro Ser Glu Arg
 50 55 60
 Gly Met Thr Tyr Asp Ala Leu His Val Phe Asp Trp Ile Lys Ala Arg
 65 70 75 80
 Ser Gly Asp Asn Pro Val Tyr Ile Trp Gly His Ser Leu Gly Thr Gly
 85 90 95
 Val Ala Thr Asn Leu Val Arg Arg Leu Cys Glu Arg Glu Thr Pro Pro
 100 105 110
 Asp Ala Leu Ile Leu Glu Ser Pro Phe Thr Asn Ile Arg Glu Glu Ala
 115 120 125
 Lys Ser His Pro Phe Ser Ile Tyr Arg Tyr Phe Pro Gly Phe Asp Trp
 130 135 140
 Phe Phe Leu Asp Pro Ile Thr Ser Ser Gly Ile Lys Phe Ala Asn Asp
 145 150 155 160
 Glu Asn Val Lys His Ile Ser Cys Pro Leu Leu Ile Leu His Ala Glu
 165 170 175
 Asp Asp Pro Val Val Pro Phe Gln Leu Gly Arg Lys Leu Tyr Ser Ile
 180 185 190
 Ala Ala Pro Ala Arg Ser Phe Arg Asp Phe Lys Val Gln Phe Val Pro
 195 200 205
 Phe His Ser Asp Leu Gly Tyr Arg His Lys Tyr Ile Tyr Lys Ser Pro
 210 215 220
 Glu Leu Pro Arg Ile Leu Arg Glu Phe Leu Gly Lys Ser Glu Pro Glu
 225 230 235 240
 His Gln His

<210> 23
 <211> 233
 <212> PRT
 <213> Homo sapiens

<400> 23
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 1 5 10 15

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Ser Ala Val Gln Cys Ile Ala Asn Pro Ile Lys Leu Ala Arg Leu Val
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 Met Glu Lys Thr Pro His Cys Phe Leu Thr Asp Gln Gly Ala Ala Gln
 35 40 45
 Phe Ala Ala Ala Met Gly Val Pro Glu Ile Pro Gly Glu Lys Leu Val
 50 55 60
 Thr Glu Arg Asn Lys Lys Arg Leu Glu Lys Glu Lys His Glu Lys Gly
 65 70 75 80
 Ala Gln Lys Thr Asp Cys Gln Lys Asn Leu Gly Thr Val Gly Ala Val
 85 90 95
 Ala Leu Asp Cys Lys Gly Asn Val Ala Tyr Ala Thr Ser Thr Gly Gly
 100 105 110
 Ile Val Asn Lys Met Val Gly Arg Val Gly Asp Ser Pro Cys Leu Ala
 115 120 125
 Gly Ala Gly Gly Tyr Ala Asp Asn Asp Ile Gly Ala Val Ser Thr Thr
 130 135 140
 Gly His Gly Glu Ser Ile Leu Lys Val Asn Leu Ala Arg Leu Thr Leu
 145 150 155 160
 Phe His Ile Glu Gln Gly Lys Thr Val Glu Glu Ala Ala Asp Leu Ser
 165 170 175
 Leu Gly Tyr Met Lys Ser Arg Val Lys Gly Leu Gly Gly Leu Ile Val
 180 185 190
 Val Ser Lys Thr Gly Asp Trp Val Ala Lys Trp Thr Ser Thr Ser Met
 195 200 205
 Pro Trp Ala Ala Ala Lys Asp Gly Lys Leu His Phe Gly Ile Asp Pro
 210 215 220
 Asp Asp Thr Thr Ile Thr Asp Leu Pro
 225 230

<210> 24
 <211> 166
 <212> PRT
 <213> Homo sapiens

<400> 24
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 Val Val Met Cys Ser Gly Pro Ser Met Glu Pro Thr Ile Gln Asn Ser
 35 40 45
 Asp Ile Val Phe Ala Glu Asn Leu Ser Arg His Phe Tyr Gly Ile Gln
 50 55 60
 Arg Gly Asp Ile Val Ile Ala Lys Ser Pro Ser Asp Pro Lys Ser Asn
 65 70 75 80
 Ile Cys Lys Arg Val Ile Gly Leu Glu Gly Asp Lys Ile Leu Thr Thr
 85 90 95
 Ser Pro Ser Asp Phe Phe Lys Ser His Ser Tyr Val Pro Met Gly His
 100 105 110
 Val Trp Leu Glu Gly Asp Asn Leu Gln Asn Ser Thr Asp Ser Arg Cys
 115 120 125
 Tyr Gly Pro Ile Pro Tyr Gly Leu Ile Arg Gly Arg Ile Phe Phe Lys
 130 135 140
 Ile Trp Pro Leu Ser Asp Phe Gly Phe Leu Arg Ala Ser Pro Asn Gly
 145 150 155 160
 His Arg Phe Ser Asp Asp
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<210> 25
 <211> 1091
 <212> PRT
 <213> Homo sapiens

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<400> 25

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20      25      30
Lys Asn Phe Asp Ser Ala Lys Val Pro Ser Asp Glu Tyr Cys Pro Ala
35      40      45
Cys Arg Glu Lys Gly Lys Leu Lys Ala Leu Lys Thr Tyr Arg Ile Ser
50      55      60
Phe Gln Glu Ser Ile Phe Leu Cys Glu Asp Leu Gln Cys Ile Tyr Pro
65      70      75      80
Leu Gly Ser Lys Ser Leu Asn Asn Leu Ile Ser Pro Asp Leu Glu Glu
85      90      95
Cys His Thr Pro His Lys Pro Gln Lys Arg Lys Ser Leu Glu Ser Ser
100     105     110
Tyr Lys Asp Ser Leu Leu Leu Ala Asn Ser Lys Lys Thr Arg Asn Tyr
115     120     125
Ile Ala Ile Asp Gly Gly Lys Val Leu Asn Ser Lys His Asn Gly Glu
130     135     140
Val Tyr Asp Glu Thr Ser Asn Leu Pro Asp Ser Ser Gly Gln Gln
145     150     155     160
Asn Pro Ile Arg Thr Ala Asp Ser Leu Glu Arg Asn Glu Ile Leu Glu
165     170     175
Ala Asp Thr Val Asp Met Ala Thr Thr Lys Asp Pro Ala Thr Val Asp
180     185     190
Val Ser Gly Thr Gly Arg Pro Ser Pro Gln Asn Glu Gly Cys Thr Ser
195     200     205
Lys Leu Glu Met Pro Leu Glu Ser Lys Cys Thr Ser Phe Pro Gln Ala
210     215     220
Leu Cys Val Gln Trp Lys Asn Ala Tyr Ala Leu Cys Trp Leu Asp Cys
225     230     235     240
Ile Leu Ser Ala Leu Val His Ser Glu Glu Leu Lys Asn Thr Val Thr
245     250     255
Gly Leu Cys Ser Lys Glu Glu Ser Ile Phe Trp Arg Leu Leu Thr Lys
260     265     270
Tyr Asn Gln Ala Asn Thr Leu Leu Tyr Thr Ser Gln Leu Ser Gly Val
275     280     285
Lys Asp Gly Asp Cys Lys Lys Leu Thr Ser Glu Ile Phe Ala Glu Ile
290     295     300
Glu Thr Cys Leu Asn Glu Val Arg Asp Glu Ile Phe Ile Ser Leu Gln
305     310     315     320
Pro Gln Leu Arg Cys Thr Leu Gly Asp Met Glu Ser Pro Val Phe Ala
325     330     335
Phe Pro Leu Leu Lys Leu Glu Thr His Ile Glu Lys Leu Phe Leu
340     345     350
Tyr Ser Phe Ser Trp Asp Phe Glu Cys Ser Gln Cys Gly His Gln Tyr
355     360     365
Gln Asn Arg His Met Lys Ser Leu Val Thr Phe Thr Asn Val Ile Pro
370     375     380
Glu Trp His Pro Leu Asn Ala Ala His Phe Gly Pro Cys Asn Asn Cys
385     390     395     400
Asn Ser Lys Ser Gln Ile Arg Lys Met Val Leu Glu Lys Val Ser Pro
405     410     415
Ile Phe Met Leu His Phe Val Glu Gly Leu Pro Gln Asn Asp Leu Gln
420     425     430
His Tyr Ala Phe His Phe Glu Gly Cys Leu Tyr Gln Ile Thr Ser Val
435     440     445
Ile Gln Tyr Arg Ala Asn Asn His Phe Ile Thr Trp Ile Leu Asp Ala
450     455     460
Asp Gly Asn Trp Leu Glu Cys Asp Asp Leu Lys Gly Pro Cys Ser Glu
465     470     475     480
Arg His Lys Lys Phe Glu Val Pro Ala Ser Glu Ile His Ile Val Ile
485     490     495

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Trp	Glu	Arg	Lys	Ile	Ser	Gln	Val	Thr	Asp	Lys	Glu	Ala	Cys	Leu
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Pro	Leu	Lys	Lys	Thr	Asn	Asp	Gln	His	Ala	Leu	Ser	Asn	Glu	Lys
		515					520					525		Pro
Val	Ser	Leu	Thr	Ser	Cys	Ser	Val	Gly	Asp	Ala	Ala	Ser	Ala	Glu
	530					535					540			Thr
Ala	Ser	Val	Thr	His	Pro	Lys	Asp	Ile	Ser	Val	Ala	Pro	Arg	Thr
545					550					555				Leu
Ser	Gln	Asp	Thr	Ala	Val	Thr	His	Gly	Asp	His	Leu	Leu	Ser	Gly
				565					570					Pro
Lys	Gly	Leu	Val	Asp	Asn	Ile	Leu	Pro	Leu	Thr	Leu	Glu	Glu	Thr
			580					585					590	Ile
Gln	Lys	Thr	Ala	Ser	Val	Ser	Gln	Leu	Asn	Ser	Glu	Ala	Phe	Leu
		595					600					605		Leu
Glu	Asn	Lys	Pro	Val	Ala	Glu	Asn	Thr	Gly	Ile	Leu	Lys	Thr	Asn
	610					615					620			Thr
Leu	Leu	Ser	Gln	Glu	Ser	Leu	Met	Ala	Ser	Ser	Val	Ser	Ala	Pro
625					630					635				Cys
Asn	Glu	Lys	Leu	Ile	Gln	Asp	Gln	Phe	Val	Asp	Ile	Ser	Phe	Pro
				645					650					Ser
Gln	Val	Val	Asn	Thr	Asn	Met	Gln	Ser	Val	Gln	Leu	Asn	Thr	Glu
			660					665					670	Asp
Thr	Val	Asn	Thr	Lys	Ser	Val	Asn	Asn	Thr	Asp	Ala	Thr	Gly	Leu
		675					680					685		Ile
Gln	Gly	Val	Lys	Ser	Val	Glu	Ile	Glu	Lys	Asp	Ala	Gln	Leu	Lys
	690					695					700			Gln
Phe	Leu	Thr	Pro	Lys	Thr	Glu	Gln	Leu	Lys	Pro	Glu	Arg	Val	Thr
705					710					715				Ser
Gln	Val	Ser	Asn	Leu	Lys	Lys	Lys	Glu	Thr	Thr	Ala	Asp	Ser	Gln
			725						730					Thr
Thr	Thr	Ser	Lys	Ser	Leu	Gln	Asn	Gln	Ser	Leu	Lys	Glu	Asn	Gln
			740					745					750	Lys
Lys	Pro	Phe	Val	Gly	Ser	Trp	Val	Lys	Gly	Leu	Ile	Ser	Arg	Gly
		755					760					765		Ala
Ser	Phe	Met	Pro	Leu	Cys	Val	Ser	Ala	His	Asn	Arg	Asn	Thr	Ile
	770					775					780			Thr
Asp	Leu	Gln	Pro	Ser	Val	Lys	Gly	Val	Asn	Asn	Phe	Gly	Gly	Phe
785					790					795				Lys
Thr	Lys	Gly	Ile	Asn	Gln	Lys	Ala	Ser	His	Val	Ser	Lys	Lys	Ala
				805					810					Arg
Lys	Ser	Ala	Ser	Lys	Pro	Pro	Pro	Ile	Ser	Lys	Pro	Pro	Ala	Gly
			820					825					830	Pro
Pro	Ser	Ser	Asn	Gly	Thr	Ala	Ala	His	Pro	His	Ala	His	Ala	Ala
		835					840					845		Ser
Glu	Val	Leu	Glu	Lys	Ser	Gly	Ser	Thr	Ser	Cys	Gly	Ala	Gln	Leu
	850					855					860			Asn
His	Ser	Ser	Tyr	Gly	Asn	Gly	Ile	Ser	Ser	Ala	Asn	His	Glu	Asp
865					870					875				Leu
Val	Glu	Gly	Gln	Ile	His	Lys	Leu	Arg	Leu	Lys	Leu	Arg	Lys	Lys
				885					890					Leu
Lys	Ala	Glu	Lys	Lys	Lys	Leu	Ala	Ala	Leu	Met	Ser	Ser	Pro	Gln
			900					905					910	Ser
Arg	Thr	Val	Arg	Ser	Glu	Asn	Leu	Glu	Gln	Val	Pro	Gln	Asp	Gly
		915					920					925		Ser
Pro	Asn	Asp	Cys	Glu	Ser	Ile	Glu	Asp	Leu	Asn	Glu	Leu	Pro	Tyr
	930					935					940			Pro
Ile	Asp	Ile	Ala	Ser	Glu	Ser	Ala	Cys	Thr	Thr	Val	Pro	Gly	Val
945					950					955				Ser
Leu	Tyr	Ser	Ser	Gln	Thr	His	Glu	Glu	Ile	Leu	Ala	Glu	Leu	Leu
				965					970					Ser
Pro	Thr	Pro	Val	Ser	Thr	Glu	Leu	Ser	Glu	Asn	Gly	Glu	Gly	Asp
			980					985					990	Phe
Arg	Tyr	Leu	Gly	Met	Gly	Asp	Ser	His	Ile	Pro	Pro	Pro	Val	Pro
														Ser

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995 1000 1005
 Glu Phe Asn Asp Val Ser Gln Asn Thr His Leu Arg Gln Asp His Asn
 1010 1015 1020
 Tyr Cys Ser Pro Thr Lys Lys Asn Pro Cys Glu Val Gln Pro Asp Ser
 1025 1030 1035 1040
 Leu Thr Asn Asn Ala Cys Val Arg Thr Leu Asn Leu Glu Ser Pro Met
 1045 1050 1055
 Lys Thr Asp Ile Phe Asp Glu Phe Phe Ser Ser Ser Ala Leu Asn Ala
 1060 1065 1070
 Leu Ala Asn Asp Thr Leu Asp Leu Pro His Phe Asp Glu Tyr Leu Phe
 1075 1080 1085
 Glu Asn Tyr
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<210> 26

<211> 439

<212> PRT

<213> Homo sapiens

<400> 26

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 Tyr Thr Phe Val Glu Val Lys Pro Gly Arg Val Leu Arg Val Lys His
 35 40 45
 Ala Gly Pro Ala Pro Ala Ala Pro Pro Pro Pro Ser Ser Ala Ser
 50 55 60
 Ser Asp Ala Ala Gln Gly Asp Leu Ser Gly Leu Val Arg Cys Gln Arg
 65 70 75 80
 Arg Ile Thr Val Tyr Arg Asn Gly Arg Leu Val Glu Asn Leu Gly
 85 90 95
 Arg Ala Pro Arg Ala Asp Leu Leu His Gly Gln Asn Gly Ser Gly Glu
 100 105 110
 Pro Pro Ala Ala Leu Glu Val Glu Leu Ala Asp Pro Ala Gly Ser Asp
 115 120 125
 Gly Arg Leu Ala Pro Gly Ser Ala Gly Ser Gly Ser Gly Ser
 130 135 140
 Gly Gly Arg Arg Arg Arg Ala Arg Arg Pro Lys Arg Thr Ile His Ile
 145 150 155 160
 Asp Cys Glu Lys Arg Ile Thr Ser Cys Lys Gly Ala Gln Ala Asp Val
 165 170 175
 Val Leu Phe Phe Ile His Gly Val Gly Ser Leu Ala Ile Trp Lys
 180 185 190
 Glu Gln Leu Asp Phe Phe Val Arg Leu Gly Tyr Glu Val Val Ala Pro
 195 200 205
 Asp Leu Ala Gly His Gly Ala Ser Ser Ala Pro Gln Val Ala Ala Ala
 210 215 220
 Tyr Thr Phe Tyr Ala Leu Ala Glu Asp Met Arg Ala Ile Phe Lys Arg
 225 230 235 240
 Tyr Ala Lys Lys Arg Asn Val Leu Ile Gly His Ser Tyr Gly Val Ser
 245 250 255
 Phe Cys Thr Phe Leu Ala His Glu Tyr Pro Asp Leu Val His Lys Val
 260 265 270
 Ile Met Ile Asn Gly Gly Gly Pro Thr Ala Leu Glu Pro Ser Phe Cys
 275 280 285
 Ser Ile Phe Asn Met Pro Thr Cys Val Leu His Cys Leu Ser Pro Cys
 290 295 300
 Leu Ala Trp Ser Phe Leu Lys Ala Gly Phe Ala Arg Gln Gly Ala Lys
 305 310 315 320
 Glu Lys Gln Leu Leu Lys Glu Gly Asn Ala Phe Asn Val Ser Ser Phe
 325 330 335
 Val Leu Arg Ala Met Met Ser Gly Gln Tyr Trp Pro Glu Gly Asp Glu

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Val	Tyr	His	340	Ala	Glu	Leu	Thr	Val	345	Pro	Val	Leu	Leu	Val	350	His	Gly	Met
		355						360						365				
His	Asp	Lys	Phe	Val	Pro	Val	Glu	Glu	Asp	Gln	Arg	Met	Ala	Glu	Ile			
	370					375				380								
Leu	Leu	Leu	Ala	Phe	Leu	Lys	Leu	Ile	Asp	Glu	Gly	Ser	His	Met	Val			
385					390					395					400			
Met	Leu	Glu	Cys	Pro	Glu	Thr	Val	Asn	Thr	Leu	Leu	His	Glu	Phe	Leu			
			405						410					415				
Leu	Trp	Glu	Pro	Glu	Pro	Ser	Pro	Lys	Ala	Leu	Pro	Glu	Pro	Leu	Pro			
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Ala	Pro	Pro	Glu	Asp	Lys	Lys												
		435																

<210> 27

<211> 514

<212> PRT

<213> Homo sapiens

<400> 27

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Cys	Met	Val	Ser	Ala	Ser	Arg	Ala	Gly	Gln	Pro	Glu	Ala	Gly	Pro	Trp			
			20					25					30					
Ser	Cys	Ser	Gly	Val	Ile	Leu	Ser	Arg	Ser	Pro	Gly	Leu	Val	Leu	Cys			
		35					40					45						
His	Gly	Gly	Ile	Phe	Val	Pro	Phe	Leu	Arg	Ala	Gly	Ser	Glu	Val	Leu			
	50					55					60							
Thr	Ala	Gly	Ala	Val	Phe	Leu	Pro	Gly	Asp	Ser	Cys	Arg	Asp	Asp	Leu			
65				70					75					80				
Arg	Leu	His	Val	Gln	Trp	Ala	Pro	Thr	Gly	Ala	Pro	Arg	Gly	Gln	Ala			
			85						90					95				
Arg	Thr	Gly	Pro	Pro	Arg	Leu	Ala	Arg	Pro	Met	Arg	Asp	Leu	Ser	Pro			
			100					105					110					
Pro	Pro	Pro	Ser	Gln	Ala	Ser	Leu	Ser	Gln	Ser	Cys	Asp	Trp	Arg	Ile			
		115					120					125						
Thr	Glu	Thr	Leu	Gly	Trp	Phe	Ala	Leu	Leu	Gly	Val	Arg	Leu	Gly	Gln			
	130					135					140							
Glu	Glu	Trp	Arg	Arg	Arg	Gly	Pro	Met	Ala	Val	Ser	Pro	Leu	Gly	Ala			
145				150					155					160				
Val	Pro	Lys	Gly	Ala	Pro	Leu	Leu	Val	Cys	Gly	Ser	Pro	Phe	Gly	Ala			
			165						170					175				
Phe	Cys	Pro	Asp	Ile	Phe	Leu	Asn	Thr	Leu	Ser	Cys	Gly	Val	Leu	Ser			
			180					185					190					
Asn	Val	Ala	Gly	Pro	Leu	Leu	Leu	Thr	Asp	Ala	Arg	Cys	Leu	Pro	Gly			
		195				200						205						
Thr	Glu	Gly	Gly	Gly	Val	Phe	Thr	Ala	Arg	Pro	Ala	Gly	Ala	Leu	Val			
	210					215					220							
Ala	Leu	Val	Val	Ala	Pro	Leu	Cys	Trp	Lys	Ala	Gly	Glu	Trp	Val	Gly			
225				230					235						240			
Phe	Thr	Leu	Leu	Cys	Ala	Ala	Ala	Pro	Leu	Phe	Arg	Ala	Ala	Arg	Asp			
			245					250						255				
Ala	Leu	His	Arg	Leu	Pro	His	Ser	Thr	Ala	Ala	Leu	Ala	Ala	Leu	Leu			
		260						265					270					
Pro	Pro	Glu	Val	Gly	Val	Pro	Trp	Gly	Leu	Pro	Leu	Arg	Asp	Ser	Gly			
		275					280					285						
Pro	Leu	Trp	Ala	Ala	Ala	Ala	Val	Leu	Val	Glu	Cys	Gly	Thr	Val	Trp			
	290				295						300							
Gly	Ser	Gly	Val	Ala	Val	Ala	Pro	Arg	Leu	Val	Val	Thr	Cys	Arg	His			
305				310					315					320				
Val	Ser	Pro	Arg	Glu	Ala	Ala	Arg	Val	Leu	Val	Arg	Ser	Thr	Thr	Pro			
			325						330					335				
Lys	Ser	Val	Ala	Ile	Trp	Gly	Arg	Val	Val	Phe	Ala	Thr	Gln	Glu	Thr			

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Cys	Pro	Tyr	340	Asp	Ile	Ala	Val	Val	345	Ser	Leu	Glu	Glu	Asp	350	Leu	Asp	Asp
Val	Pro	Ile	355	Pro	Val	Pro	Ala	Glu	360	His	Phe	His	Glu	Gly	365	Glu	Ala	Val
Ser	Val	Val	370	Gly	Phe	Gly	Val	Phe	375	Gly	Gln	Ser	Cys	Gly	380	Pro	Ser	Val
385	Thr	Ser	Gly	Ile	Leu	Ser	Ala	Val	390	Val	Gln	Val	Asn	Gly	395	Thr	Pro	400
				405					410						415			Val
Met	Leu	Gln	420	Thr	Thr	Cys	Ala	Val	425	His	Ser	Gly	Ser	Ser	430	Gly	Gly	Pro
Leu	Phe	Ser	435	Asn	His	Ser	Gly	Asn	440	Leu	Leu	Gly	Ile	Ile	445	Thr	Ser	Asn
Thr	Arg	Asp	450	Asn	Asn	Thr	Gly	Ala	455	Thr	Tyr	Pro	His	Leu	460	Asn	Phe	Ser
Ile	Pro	Ile	465	Thr	Val	Leu	Gln	Pro	470	Ala	Leu	Gln	Gln	Tyr	475	Ser	Gln	Thr
Gln	Asp	Leu	485	Gly	Gly	Leu	Arg	Glu	490	Leu	Asp	Arg	Ala	Ala	495	Glu	Pro	Val
Arg	Val	Val	500	Trp	Arg	Leu	Gln	Arg	505	Leu	Ala	Glu	Ala	Pro	510	Arg	Ser	
Lys	Leu																	

<210> 28

<211> 305

<212> PRT

<213> Homo sapiens

<400> 28

Met	Ala	Val	Ala	Arg	Leu	Ala	Ala	Val	10	Ala	Ala	Trp	Val	Pro	Cys	Arg
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	Val	Leu	Leu	Ala	Arg	Ile	Pro	Gln	25	Arg	Ala	Pro	Arg	Trp	Leu	Pro
		35						40						45		Ala
Cys	Arg	Gln	Lys	Thr	Ser	Leu	Ser	Phe	50	Leu	Asn	Arg	Pro	Asp	Leu	Pro
55	Asn	Leu	Ala	Tyr	Lys	Lys	Leu	Lys	60	Gly	Lys	Ser	Pro	Gly	Ile	Ile
65	Ile	Pro	Gly	Tyr	Leu	Ser	Tyr	Met	70	Asn	Gly	Thr	Lys	Ala	Leu	Ala
				85					90						95	Ile
Glu	Glu	Phe	Cys	Lys	Ser	Leu	Gly	His	100	Ala	Cys	Ile	Arg	Phe	Asp	Tyr
Ser	Gly	Val	Gly	Ser	Ser	Asp	Gly	Asn	105	Ser	Glu	Glu	Ser	Thr	Leu	Gly
		115					120						125			
Lys	Trp	Arg	Lys	Asp	Val	Leu	Ser	Ile	130	Ile	Asp	Asp	Leu	Ala	Asp	Gly
135	Pro	Gln	Ile	Leu	Val	Gly	Ser	Leu	140	Gly	Gly	Trp	Leu	Met	Leu	His
145	Ala	Ala	Ile	Ala	Arg	Pro	Glu	Lys	150	Val	Val	Ala	Leu	Ile	Gly	Val
				165					170						175	Ala
Thr	Ala	Asp	Thr	Leu	Val	Thr	Lys	Phe	180	Asn	Gln	Leu	Pro	Val	Glu	Leu
			185						190							
Lys	Lys	Glu	Val	Glu	Met	Lys	Gly	Val	200	Trp	Ser	Met	Pro	Ser	Lys	Tyr
		195											205			
Ser	Glu	Glu	Gly	Val	Tyr	Asn	Val	Gln	210	Tyr	Ser	Phe	Ile	Lys	Glu	Ala
		215							220							
Glu	His	His	Cys	Leu	Leu	His	Ser	Pro	225	Ile	Pro	Val	Asn	Cys	Pro	Ile
230	Arg	Leu	Leu	His	Gly	Met	Lys	Asp	235	Ile	Val	Pro	Trp	His	Thr	Ser
				245					250						255	
Met	Gln	Val	Ala	Asp	Arg	Val	Leu	Ser	255	Thr	Asp	Val	Asp	Val	Ile	Leu

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Arg	Lys	His	260	Asp	His	Arg	Met	265	Arg	Glu	Lys	Ala	Asp	270	Ile	Gln	Leu
		275	Ser				280						285				
Leu	Val	Tyr	Thr	Ile	Asp	Asp	Leu	Ile	Asp	Lys	Leu	Ser	Thr	Ile	Val		
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Asn
305

<210> 29
<211> 728
<212> PRT
<213> Homo sapiens

<400> 29

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			20					25					30				
Leu	Gln	Asn	Met	Val	Lys	Phe	Pro	Leu	Thr	Gly	Leu	Asp	Met	Thr	Pro		
		35					40					45					
His	Val	Val	Lys	Arg	Ser	Gln	Ser	Ser	Trp	Ser	Leu	Pro	Ser	His	Trp		
	50					55					60						
Ser	Pro	Trp	Arg	Arg	Pro	Tyr	Gly	Leu	Gly	Arg	Asp	Pro	Glu	Asp	Tyr		
65					70					75					80		
Ile	Tyr	Asp	Leu	Tyr	Ala	Val	Cys	Asn	His	Gly	Thr	Met	Gln	Gly			
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Gly	His	Tyr	Thr	Ala	Tyr	Cys	Lys	Asn	Ser	Val	Asp	Gly	Leu	Trp	Tyr		
			100					105					110				
Cys	Phe	Asp	Asp	Ser	Asp	Val	Gln	Gln	Leu	Ser	Glu	Asp	Glu	Val	Cys		
		115					120					125					
Thr	Gln	Thr	Ala	Tyr	Ile	Leu	Phe	Tyr	Gln	Arg	Arg	Thr	Ala	Ile	Pro		
	130					135						140					
Ser	Trp	Ser	Ala	Asn	Ser	Ser	Val	Ala	Gly	Ser	Thr	Ser	Ser	Ser	Leu		
145					150					155					160		
Cys	Glu	His	Trp	Val	Ser	Arg	Leu	Pro	Gly	Ser	Lys	Pro	Ala	Ser	Val		
				165					170					175			
Thr	Ser	Ala	Ala	Ser	Ser	Arg	Arg	Thr	Ser	Leu	Ala	Ser	Leu	Ser	Glu		
			180					185					190				
Ser	Val	Glu	Met	Thr	Gly	Glu	Arg	Ser	Glu	Asp	Asp	Gly	Gly	Cys	Phe		
		195					200					205					
Ser	Thr	Arg	Pro	Phe	Val	Arg	Ser	Val	Gln	Arg	Gln	Ser	Leu	Ser	Ser		
	210					215					220						
Arg	Ser	Ser	Val	Thr	Ser	Pro	Leu	Ala	Val	Asn	Glu	Asn	Cys	Met	Arg		
225					230					235					240		
Pro	Ser	Trp	Ser	Leu	Ser	Ala	Lys	Leu	Gln	Met	Arg	Ser	Asn	Ser	Pro		
				245					250					255			
Ser	Arg	Phe	Ser	Gly	Asp	Ser	Pro	Ile	His	Ser	Ser	Ala	Ser	Thr	Leu		
			260					265					270				
Glu	Lys	Ile	Gly	Glu	Ala	Ala	Asp	Lys	Val	Ser	Ile	Ser	Cys	Phe			
		275					280				285						
Gly	Ser	Leu	Arg	Asn	Leu	Ser	Ser	Ser	Tyr	Gln	Glu	Pro	Ser	Asp	Ser		
	290					295					300						
His	Ser	Leu	Arg	Glu	His	Lys	Ala	Val	Gly	Arg	Ala	Pro	Leu	Ala	Val		
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				325					330					335			
Ser	Val	Val	Asp	Thr	Gln	Ser	Lys	His	Ser	Ala	Gln	Gly	Asp	Arg	Leu		
			340					345					350				
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Asp	Gln	Ser	Asp	Ser	Val	Asp	Ser	Ser	Pro	Val	Lys	Glu	Val	Lys	Ala		
	370					375					380						
Pro	Ser	His	Pro	Gly	Ser	Leu	Ala	Lys	Lys	Pro	Glu	Ser	Thr	Thr	Lys		

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Ser Pro Ser Ser Pro Leu Pro Val Lys Val Ser Leu Lys Pro Ser Arg
435 440 445
Ser Arg Ser Lys Ala Asp Ser Ser Arg Gly Ser Gly Arg His Ser
450 455 460
Ser Pro Ala Pro Ala Gln Pro Lys Lys Glu Ser Ser Pro Lys Ser Gln
465 470 475 480
Asp Ser Val Ser Ser Pro Ser Pro Gln Lys Gln Lys Ser Ala Ser Ala
485 490 495
Leu Thr Tyr Thr Ala Ser Ser Thr Ser Ala Lys Lys Ala Ser Gly Pro
500 505 510
Ala Thr Arg Ser Pro Phe Pro Pro Gly Lys Ser Arg Thr Ser Asp His
515 520 525
Ser Leu Ser Arg Glu Gly Ser Arg Gln Ser Leu Gly Ser Asp Arg Ala
530 535 540
Ser Ala Thr Ser Thr Ser Lys Pro Asn Ser Pro Arg Val Ser Gln Ala
545 550 555 560
Arg Ala Gly Glu Gly Arg Gly Ala Gly Lys His Val Arg Ser Ser Ser
565 570 575
Met Ala Ser Leu Arg Ser Pro Ser Thr Ser Ile Lys Ser Gly Leu Lys
580 585 590
Arg Asp Ser Lys Ser Glu Asp Lys Gly Leu Ser Phe Phe Lys Ser Ala
595 600 605
Leu Arg Gln Lys Glu Thr Arg Arg Ser Thr Asp Leu Gly Lys Thr Ala
610 615 620
Leu Leu Ser Lys Lys Ala Gly Gly Ser Ser Val Lys Ser Val Cys Lys
625 630 635 640
Asn Thr Gly Asp Asp Glu Ala Glu Arg Gly His Gln Pro Pro Ala Ser
645 650 655
Gln Gln Pro Asn Ala Asn Thr Thr Gly Lys Glu Gln Leu Val Thr Lys
660 665 670
Asp Pro Ala Ser Ala Lys His Ser Leu Leu Ser Ala Arg Lys Ser Lys
675 680 685
Ser Ser Gln Leu Asp Ser Gly Val Pro Ser Ser Pro Gly Gly Arg Gln
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Ser Ala Glu Lys Ser Ser Lys Lys Leu Ser Ser Ser Met Gln Thr Ser
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Ala Arg Pro Ser Gln Lys Pro Gln
725

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<210> 30

<211> 561

<212> PRT

<213> Homo sapiens

<400> 30

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Arg Phe Glu Asn Val Asn Gly Tyr Thr Asn Cys Cys Phe Gly Phe His
35 40 45
Arg Leu Ala Val Val Asp Pro Leu Phe Gly Met Gln Pro Ile Arg Val
50 55 60
Lys Lys Tyr Pro Tyr Leu Trp Leu Cys Tyr Asn Gly Glu Ile Tyr Asn
65 70 75 80
His Lys Lys Met Gln His Phe Glu Phe Glu Tyr Gln Thr Lys Val
85 90 95
Asp Gly Glu Ile Ile Leu His Leu Tyr Asp Lys Gly Gly Ile Glu Gln

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GC773-2-seqlist

Thr	Ile	Cys	100	Leu	Asp	Gly	Val	105	Phe	Ala	Phe	Val	110	Leu	Asp	Thr
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	130					135					140					
Leu	Phe	Lys	Ala	Met	Thr	Glu	Asp	Gly	Phe	Leu	Ala	Val	Cys	Ser	Glu	
145					150					155					160	
Ala	Lys	Gly	Leu	Val	Thr	Leu	Lys	His	Ser	Ala	Thr	Pro	Phe	Leu	Lys	
			165						170					175		
Val	Glu	Pro	Phe	Leu	Pro	Gly	His	Tyr	Glu	Val	Leu	Asp	Leu	Lys	Pro	
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Asn	Gly	Lys	Val	Ala	Ser	Val	Glu	Met	Val	Lys	Tyr	His	His	Cys	Arg	
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Asp	Val	Pro	Leu	His	Ala	Leu	Tyr	Asp	Asn	Val	Glu	Lys	Leu	Phe	Pro	
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Gly	Phe	Glu	Ile	Glu	Thr	Val	Lys	Asn	Asn	Leu	Arg	Ile	Leu	Phe	Asn	
225					230					235					240	
Asn	Ala	Val	Lys	Lys	Arg	Leu	Met	Thr	Asp	Arg	Arg	Ile	Gly	Cys	Leu	
			245						250					255		
Leu	Ser	Gly	Gly	Leu	Asp	Ser	Ser	Leu	Val	Ala	Ala	Thr	Leu	Lys		
			260					265					270			
Gln	Leu	Lys	Glu	Ala	Gln	Val	Gln	Tyr	Pro	Leu	Gln	Thr	Phe	Ala	Ile	
		275					280					285				
Gly	Met	Glu	Asp	Ser	Pro	Asp	Leu	Leu	Ala	Ala	Arg	Lys	Val	Ala	Asp	
	290					295					300					
His	Ile	Gly	Ser	Glu	His	Tyr	Glu	Val	Leu	Phe	Asn	Ser	Glu	Glu	Gly	
305					310					315					320	
Ile	Gln	Ala	Leu	Asp	Glu	Val	Ile	Phe	Ser	Leu	Glu	Thr	Tyr	Asp	Ile	
			325					330						335		
Thr	Thr	Val	Arg	Ala	Ser	Val	Gly	Met	Tyr	Leu	Ile	Ser	Lys	Tyr	Ile	
			340					345					350			
Arg	Lys	Asn	Thr	Asp	Ser	Val	Val	Ile	Phe	Ser	Gly	Glu	Gly	Ser	Asp	
		355					360					365				
Glu	Leu	Thr	Gln	Gly	Tyr	Ile	Tyr	Phe	His	Lys	Ala	Pro	Ser	Pro	Glu	
	370					375					380					
Lys	Ala	Glu	Glu	Glu	Ser	Glu	Arg	Leu	Leu	Arg	Glu	Leu	Tyr	Leu	Phe	
385					390					395					400	
Asp	Val	Leu	Arg	Ala	Asp	Arg	Thr	Thr	Ala	Ala	His	Gly	Leu	Glu	Leu	
			405						410					415		
Arg	Val	Pro	Phe	Leu	Asp	His	Arg	Phe	Ser	Ser	Tyr	Tyr	Leu	Ser	Leu	
			420					425					430			
Pro	Pro	Glu	Met	Arg	Ile	Pro	Lys	Asn	Gly	Ile	Glu	Lys	His	Leu	Leu	
		435					440					445				
Arg	Glu	Thr	Phe	Glu	Asp	Ser	Asn	Leu	Ile	Pro	Lys	Glu	Ile	Leu	Trp	
	450					455					460					
Arg	Pro	Lys	Glu	Ala	Phe	Ser	Asp	Gly	Ile	Thr	Ser	Val	Lys	Asn	Ser	
465					470					475					480	
Trp	Phe	Lys	Ile	Leu	Gln	Glu	Tyr	Val	Glu	His	Gln	Val	Asp	Asp	Ala	
			485						490					495		
Met	Met	Ala	Asn	Ala	Ala	Gln	Lys	Phe	Pro	Phe	Asn	Thr	Pro	Lys	Thr	
			500					505					510			
Lys	Glu	Gly	Tyr	Tyr	Tyr	Arg	Gln	Val	Phe	Glu	Arg	His	Tyr	Pro	Gly	
		515					520					525				
Arg	Ala	Asp	Trp	Leu	Ser	His	Tyr	Trp	Met	Pro	Lys	Trp	Ile	Asn	Ala	
	530					535					540					
Thr	Asp	Pro	Ser	Ala	Arg	Thr	Leu	Thr	His	Tyr	Lys	Ser	Ala	Val	Lys	
545					550					555					560	
Ala																

<210> 31
 <211> 830
 <212> PRT

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<213> Homo sapiens

<400> 31

Gln Ala Asn Cys Gln Ile Ala Ile Leu Tyr Gln Arg Phe Gln Arg Val
 1 5 10 15
 Val Phe Gly Ile Ser Gln Leu Leu Cys Phe Ser Ala Leu Ile Ser Glu
 20 25 30
 Leu Thr Asn Gln Lys Glu Val Ala Trp Thr Tyr His Tyr Ser Thr
 35 40 45
 Lys Ala Tyr Ser Trp Asn Ile Ser Arg Lys Tyr Cys Gln Asn Arg Tyr
 50 55 60
 Thr Asp Leu Val Ala Ile Gln Asn Lys Asn Glu Ile Asp Tyr Leu Asn
 65 70 75 80
 Lys Val Leu Pro Tyr Trp Ser Ser Tyr Trp Ile Gly Ile Arg Lys
 85 90 95
 Asn Asn Lys Thr Trp Thr Trp Val Gly Thr Lys Lys Ala Leu Thr Asn
 100 105 110
 Glu Ala Glu Asn Trp Ala Asp Asn Glu Pro Asn Asn Lys Arg Asn Asn
 115 120 125
 Glu Asp Cys Val Glu Ile Tyr Ile Lys Ser Pro Ser Ala Pro Gly Lys
 130 135 140
 Trp Asn Asp Glu His Cys Leu Lys Lys Lys His Ala Leu Cys Tyr Thr
 145 150 155 160
 Ala Ser Cys Gln Asp Met Ser Cys Ser Lys Gln Gly Glu Cys Leu Glu
 165 170 175
 Thr Ile Gly Asn Tyr Thr Cys Ser Cys Tyr Pro Gly Phe Tyr Gly Pro
 180 185 190
 Glu Cys Glu Tyr Val Arg Glu Cys Gly Glu Leu Glu Leu Pro Gln His
 195 200 205
 Val Leu Met Asn Cys Ser His Pro Leu Gly Asn Phe Ser Phe Asn Ser
 210 215 220
 Gln Cys Ser Phe His Cys Thr Asp Gly Tyr Gln Val Asn Gly Pro Ser
 225 230 235 240
 Lys Leu Glu Cys Leu Ala Ser Gly Ile Trp Thr Asn Lys Pro Pro Gln
 245 250 255
 Cys Leu Ala Ala Gln Cys Pro Pro Leu Lys Ile Pro Glu Arg Gly Asn
 260 265 270
 Met Thr Cys Leu His Ser Ala Lys Ala Phe Gln His Gln Ser Ser Cys
 275 280 285
 Ser Phe Ser Cys Glu Glu Gly Phe Ala Leu Val Gly Pro Glu Val Val
 290 295 300
 Gln Cys Thr Ala Ser Gly Val Trp Thr Ala Pro Ala Pro Val Cys Lys
 305 310 315 320
 Ala Val Gln Cys Gln His Leu Glu Ala Pro Ser Glu Gly Thr Met Asp
 325 330 335
 Cys Val His Pro Leu Thr Ala Phe Ala Tyr Gly Ser Ser Cys Lys Phe
 340 345 350
 Glu Cys Gln Pro Gly Tyr Arg Val Arg Gly Leu Asp Met Leu Arg Cys
 355 360 365
 Ile Asp Ser Gly His Trp Ser Ala Pro Leu Pro Thr Cys Glu Ala Ile
 370 375 380
 Ser Cys Glu Pro Leu Glu Ser Pro Val His Gly Ser Met Asp Cys Ser
 385 390 395 400
 Pro Ser Leu Arg Ala Phe Gln Tyr Asp Thr Asn Cys Ser Phe Arg Cys
 405 410 415
 Ala Glu Gly Phe Met Leu Arg Gly Ala Asp Ile Val Arg Cys Asp Asn
 420 425 430
 Leu Gly Gln Trp Thr Ala Pro Ala Pro Val Cys Gln Ala Leu Gln Cys
 435 440 445
 Gln Asp Leu Pro Val Pro Asn Glu Ala Arg Val Asn Cys Ser His Pro
 450 455 460
 Phe Gly Ala Phe Arg Tyr Gln Ser Val Cys Ser Phe Thr Cys Asn Glu
 465 470 475 480

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Gly	Leu	Leu	Leu	Val	Gly	Ala	Ser	Val	Leu	Gln	Cys	Leu	Ala	Thr	Gly
				485					490					495	
Asn	Trp	Asn	Ser	Val	Pro	Pro	Glu	Cys	Gln	Ala	Ile	Pro	Cys	Thr	Pro
			500					505					510		
Leu	Leu	Ser	Pro	Gln	Asn	Gly	Thr	Met	Thr	Cys	Val	Gln	Pro	Leu	Gly
		515					520					525			
Ser	Ser	Ser	Tyr	Lys	Ser	Thr	Cys	Gln	Phe	Ile	Cys	Asp	Glu	Gly	Tyr
	530					535					540				
Ser	Leu	Ser	Gly	Pro	Glu	Arg	Leu	Asp	Cys	Thr	Arg	Ser	Gly	Arg	Trp
	545				550					555					560
Thr	Asp	Ser	Pro	Pro	Met	Cys	Glu	Ala	Ile	Lys	Cys	Pro	Glu	Leu	Phe
				565					570					575	
Ala	Pro	Glu	Gln	Gly	Ser	Leu	Asp	Cys	Ser	Asp	Thr	Arg	Gly	Glu	Phe
			580					585					590		
Asn	Val	Gly	Ser	Thr	Cys	His	Phe	Ser	Cys	Asp	Asn	Gly	Phe	Lys	Leu
		595					600					605			
Glu	Gly	Pro	Asn	Asn	Val	Glu	Cys	Thr	Thr	Ser	Gly	Arg	Trp	Ser	Ala
	610					615					620				
Thr	Pro	Pro	Thr	Cys	Lys	Gly	Ile	Ala	Ser	Leu	Pro	Thr	Pro	Gly	Val
	625				630					635					640
Gln	Cys	Pro	Ala	Leu	Thr	Thr	Pro	Gly	Gln	Gly	Thr	Met	Tyr	Cys	Arg
				645					650					655	
His	His	Pro	Gly	Thr	Phe	Gly	Phe	Asn	Thr	Thr	Cys	Tyr	Phe	Gly	Cys
			660					665					670		
Asn	Ala	Gly	Phe	Thr	Leu	Ile	Gly	Asp	Ser	Thr	Leu	Ser	Cys	Arg	Pro
		675					680					685			
Ser	Gly	Gln	Trp	Thr	Ala	Val	Thr	Pro	Ala	Cys	Arg	Ala	Val	Lys	Cys
	690					695					700				
Ser	Glu	Leu	His	Val	Asn	Lys	Pro	Ile	Ala	Met	Asn	Cys	Ser	Asn	Leu
	705				710					715					720
Trp	Gly	Asn	Phe	Ser	Tyr	Gly	Ser	Ile	Cys	Ser	Phe	His	Cys	Leu	Glu
				725					730					735	
Gly	Gln	Leu	Leu	Asn	Gly	Ser	Ala	Gln	Thr	Ala	Cys	Gln	Glu	Asn	Gly
			740					745					750		
His	Trp	Ser	Thr	Thr	Val	Pro	Thr	Cys	Gln	Ala	Gly	Pro	Leu	Thr	Ile
		755					760					765			
Gln	Glu	Ala	Leu	Thr	Tyr	Phe	Gly	Gly	Ala	Val	Ala	Ser	Thr	Ile	Gly
	770					775					780				
Leu	Ile	Met	Gly	Gly	Thr	Leu	Leu	Ala	Leu	Leu	Arg	Lys	Arg	Phe	Arg
	785				790					795					800
Gln	Lys	Asp	Asp	Gly	Lys	Cys	Pro	Leu	Asn	Pro	His	Ser	His	Leu	Gly
				805					810					815	
Thr	Tyr	Gly	Val	Phe	Thr	Asn	Ala	Ala	Phe	Asp	Pro	Ser	Pro		
			820					825					830		

<210> 32

<211> 2386

<212> PRT

<213> Homo sapiens

<400> 32

Met	Leu	Arg	Gly	Pro	Gly	Pro	Gly	Leu	Leu	Leu	Leu	Ala	Val	Gln	Cys
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Leu	Gly	Thr	Ala	Val	Pro	Ser	Thr	Gly	Ala	Ser	Lys	Ser	Lys	Arg	Gln
			20					25					30		
Ala	Gln	Gln	Met	Val	Gln	Pro	Gln	Ser	Pro	Val	Ala	Val	Ser	Gln	Ser
		35					40					45			
Lys	Pro	Gly	Cys	Tyr	Asp	Asn	Gly	Lys	His	Tyr	Gln	Ile	Asn	Gln	Gln
	50					55					60				
Trp	Glu	Arg	Thr	Tyr	Leu	Gly	Asn	Ala	Leu	Val	Cys	Thr	Cys	Tyr	Gly
	65				70					75					80
Gly	Ser	Arg	Gly	Phe	Asn	Cys	Glu	Ser	Lys	Pro	Glu	Ala	Glu	Glu	Thr
				85					90					95	

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Cys	Phe	Asp	Lys	Tyr	Thr	Gly	Asn	Thr	Tyr	Arg	Val	Gly	Asp	Thr	Tyr
			100					105					110		
Glu	Arg	Pro	Lys	Asp	Ser	Met	Ile	Trp	Asp	Cys	Thr	Cys	Ile	Gly	Ala
		115					120					125			
Gly	Arg	Gly	Arg	Ile	Ser	Cys	Thr	Ile	Ala	Asn	Arg	Cys	His	Glu	Gly
	130					135					140				
Gly	Gln	Ser	Tyr	Lys	Ile	Gly	Asp	Thr	Trp	Arg	Arg	Pro	His	Glu	Thr
145					150					155					160
Gly	Gly	Tyr	Met	Leu	Glu	Cys	Val	Cys	Leu	Gly	Asn	Gly	Lys	Gly	Glu
			165						170					175	
Trp	Thr	Cys	Lys	Pro	Ile	Ala	Glu	Lys	Cys	Phe	Asp	His	Ala	Ala	Gly
			180					185					190		
Thr	Ser	Tyr	Val	Val	Gly	Glu	Thr	Trp	Glu	Lys	Pro	Tyr	Gln	Gly	Trp
		195					200					205			
Met	Met	Val	Asp	Cys	Thr	Cys	Leu	Gly	Glu	Gly	Ser	Gly	Arg	Ile	Thr
	210					215					220				
Cys	Thr	Ser	Arg	Asn	Arg	Cys	Asn	Asp	Gln	Asp	Thr	Arg	Thr	Ser	Tyr
225					230					235					240
Arg	Ile	Gly	Asp	Thr	Trp	Ser	Lys	Lys	Asp	Asn	Arg	Gly	Asn	Leu	Leu
			245						250					255	
Gln	Cys	Ile	Cys	Thr	Gly	Asn	Gly	Arg	Gly	Glu	Trp	Lys	Cys	Glu	Arg
			260					265					270		
His	Thr	Ser	Val	Gln	Thr	Thr	Ser	Ser	Gly	Ser	Gly	Pro	Phe	Thr	Asp
		275					280					285			
Val	Arg	Ala	Ala	Val	Tyr	Gln	Pro	Gln	Pro	His	Pro	Gln	Pro	Pro	Pro
	290					295					300				
Tyr	Gly	His	Cys	Val	Thr	Asp	Ser	Gly	Val	Val	Tyr	Ser	Val	Gly	Met
305					310					315					320
Gln	Trp	Leu	Lys	Thr	Gln	Gly	Asn	Lys	Gln	Met	Leu	Cys	Thr	Cys	Leu
			325						330					335	
Gly	Asn	Gly	Val	Ser	Cys	Gln	Glu	Thr	Ala	Val	Thr	Gln	Thr	Tyr	Gly
			340					345					350		
Gly	Asn	Ser	Asn	Gly	Glu	Pro	Cys	Val	Leu	Pro	Phe	Thr	Tyr	Asn	Gly
		355					360					365			
Arg	Thr	Phe	Tyr	Ser	Cys	Thr	Thr	Glu	Gly	Arg	Gln	Asp	Gly	His	Leu
	370					375					380				
Trp	Cys	Ser	Thr	Thr	Ser	Asn	Tyr	Glu	Gln	Asp	Gln	Lys	Tyr	Ser	Phe
385					390					395					400
Cys	Thr	Asp	His	Thr	Val	Leu	Val	Gln	Thr	Arg	Gly	Gly	Asn	Ser	Asn
			405						410				415		
Gly	Ala	Leu	Cys	His	Phe	Pro	Phe	Leu	Tyr	Asn	Asn	His	Asn	Tyr	Thr
			420					425					430		
Asp	Cys	Thr	Ser	Glu	Gly	Arg	Arg	Asp	Asn	Met	Lys	Trp	Cys	Gly	Thr
		435					440					445			
Thr	Gln	Asn	Tyr	Asp	Ala	Asp	Gln	Lys	Phe	Gly	Phe	Cys	Pro	Met	Ala
	450				455					460					
Ala	His	Glu	Glu	Ile	Cys	Thr	Thr	Asn	Glu	Gly	Val	Met	Tyr	Arg	Ile
465					470					475					480
Gly	Asp	Gln	Trp	Asp	Lys	Gln	His	Asp	Met	Gly	His	Met	Met	Arg	Cys
			485						490					495	
Thr	Cys	Val	Gly	Asn	Gly	Arg	Gly	Glu	Trp	Thr	Cys	Ile	Ala	Tyr	Ser
			500					505					510		
Gln	Leu	Arg	Asp	Gln	Cys	Ile	Val	Asp	Asp	Ile	Thr	Tyr	Asn	Val	Asn
		515					520					525			
Asp	Thr	Phe	His	Lys	Arg	His	Glu	Glu	Gly	His	Met	Leu	Asn	Cys	Thr
	530					535					540				
Cys	Phe	Gly	Gln	Gly	Arg	Gly	Arg	Trp	Lys	Cys	Asp	Pro	Val	Asp	Gln
545					550					555					560
Cys	Gln	Asp	Ser	Glu	Thr	Gly	Thr	Phe	Tyr	Gln	Ile	Gly	Asp	Ser	Trp
			565					570					575		
Glu	Lys	Tyr	Val	His	Gly	Val	Arg	Tyr	Gln	Cys	Tyr	Cys	Tyr	Gly	Arg
			580					585					590		
Gly	Ile	Gly	Glu	Trp	His	Cys	Gln	Pro	Leu	Gln	Thr	Tyr	Pro	Ser	Ser

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Ser	Gly	595	Val	Glu	Val	Phe	600	Ile	Thr	Glu	Thr	Pro	605	Ser	Gln	Pro	Asn
	610	Pro				615						620					
Ser	His	Pro	Ile	Gln	Trp	Asn	Ala	Pro	Gln	Pro	Ser	His	Ile	Ser	Lys		
625					630					635					640		
Tyr	Ile	Leu	Arg	Trp	Arg	Pro	Lys	Asn	Ser	Val	Gly	Arg	Trp	Lys	Glu		
				645					650					655			
Ala	Thr	Ile	Pro	Gly	His	Leu	Asn	Ser	Tyr	Thr	Ile	Lys	Gly	Leu	Lys		
			660					665					670				
Pro	Gly	Val	Val	Tyr	Glu	Gly	Gln	Leu	Ile	Ser	Ile	Gln	Gln	Tyr	Gly		
		675					680					685					
His	Gln	Glu	Val	Thr	Arg	Phe	Asp	Phe	Thr	Thr	Thr	Ser	Thr	Ser	Thr		
	690					695					700						
Pro	Val	Thr	Ser	Asn	Thr	Val	Thr	Gly	Glu	Thr	Thr	Pro	Phe	Ser	Pro		
705					710					715					720		
Leu	Val	Ala	Thr	Ser	Glu	Ser	Val	Thr	Glu	Ile	Thr	Ala	Ser	Ser	Phe		
				725					730					735			
Val	Val	Ser	Trp	Val	Ser	Ala	Ser	Asp	Thr	Val	Ser	Gly	Phe	Arg	Val		
			740					745					750				
Glu	Tyr	Glu	Leu	Ser	Glu	Glu	Gly	Asp	Glu	Pro	Gln	Tyr	Leu	Asp	Leu		
		755					760					765					
Pro	Ser	Thr	Ala	Thr	Ser	Val	Asn	Ile	Pro	Asp	Leu	Leu	Pro	Gly	Arg		
		770				775					780						
Lys	Tyr	Ile	Val	Asn	Val	Tyr	Gln	Ile	Ser	Glu	Asp	Gly	Glu	Gln	Ser		
785					790					795					800		
Leu	Ile	Leu	Ser	Thr	Ser	Gln	Thr	Thr	Ala	Pro	Asp	Ala	Pro	Pro	Asp		
				805					810					815			
Thr	Thr	Val	Asp	Gln	Val	Asp	Asp	Thr	Ser	Ile	Val	Val	Arg	Trp	Ser		
			820					825					830				
Arg	Pro	Gln	Ala	Pro	Ile	Thr	Gly	Tyr	Arg	Ile	Val	Tyr	Ser	Pro	Ser		
		835					840					845					
Val	Glu	Gly	Ser	Ser	Thr	Glu	Leu	Asn	Leu	Pro	Glu	Thr	Ala	Asn	Ser		
		850				855					860						
Val	Thr	Leu	Ser	Asp	Leu	Gln	Pro	Gly	Val	Gln	Tyr	Asn	Ile	Thr	Ile		
865					870					875					880		
Tyr	Ala	Val	Glu	Glu	Asn	Gln	Glu	Ser	Thr	Pro	Val	Val	Ile	Gln	Gln		
				885					890					895			
Glu	Thr	Thr	Gly	Thr	Pro	Arg	Ser	Asp	Thr	Val	Pro	Ser	Pro	Arg	Asp		
			900					905					910				
Leu	Gln	Phe	Val	Glu	Val	Thr	Asp	Val	Lys	Val	Thr	Ile	Met	Trp	Thr		
		915					920					925					
Pro	Pro	Glu	Ser	Ala	Val	Thr	Gly	Tyr	Arg	Val	Asp	Val	Ile	Pro	Val		
		930				935					940						
Asn	Leu	Pro	Gly	Glu	His	Gly	Gln	Arg	Leu	Pro	Ile	Ser	Arg	Asn	Thr		
945					950					955					960		
Phe	Ala	Glu	Val	Thr	Gly	Leu	Ser	Pro	Gly	Val	Thr	Tyr	Tyr	Phe	Lys		
				965					970					975			
Val	Phe	Ala	Val	Ser	His	Gly	Arg	Glu	Ser	Lys	Pro	Leu	Thr	Ala	Gln		
			980					985					990				
Gln	Thr	Thr	Lys	Leu	Asp	Ala	Pro	Thr	Asn	Leu	Gln	Phe	Val	Asn	Glu		
		995					1000					1005					
Thr	Asp	Ser	Thr	Val	Leu	Val	Arg	Trp	Thr	Pro	Pro	Arg	Ala	Gln	Ile		
		1010				1015					1020						
Thr	Gly	Tyr	Arg	Leu	Thr	Val	Gly	Leu	Thr	Arg	Arg	Gly	Gln	Pro	Arg		
1025					1030					1035					1040		
Gln	Tyr	Asn	Val	Gly	Pro	Ser	Val	Ser	Lys	Tyr	Pro	Leu	Arg	Asn	Leu		
				1045					1050					1055			
Gln	Pro	Ala	Ser	Glu	Tyr	Thr	Val	Ser	Leu	Val	Ala	Ile	Lys	Gly	Asn		
			1060					1065					1070				
Gln	Glu	Ser	Pro	Lys	Ala	Thr	Gly	Val	Phe	Thr	Thr	Leu	Gln	Pro	Gly		
		1075					1080					1085					
Ser	Ser	Ile	Pro	Pro	Tyr	Asn	Thr	Glu	Val	Thr	Glu	Thr	Thr	Ile	Val		
		1090				1095					1100						

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Ile Thr Trp Thr Pro Ala Pro Arg Ile Gly Phe Lys Leu Gly Val Arg
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 Pro Ser Gln Gly Gly Glu Ala Pro Arg Glu Val Thr Ser Asp Ser Gly
 1125 1130 1135
 Ser Ile Val Val Ser Gly Leu Thr Pro Gly Val Glu Tyr Val Tyr Thr
 1140 1145 1150
 Ile Gln Val Leu Arg Asp Gly Gln Glu Arg Asp Ala Pro Ile Val Asn
 1155 1160 1165
 Lys Val Val Thr Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala
 1170 1175 1180
 Asn Pro Asp Thr Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr
 1185 1190 1195 1200
 Pro Asp Ile Thr Gly Tyr Arg Ile Thr Thr Thr Pro Thr Asn Gly Gln
 1205 1210 1215
 Gln Gly Asn Ser Leu Glu Glu Val Val His Ala Asp Gln Ser Ser Cys
 1220 1225 1230
 Thr Phe Asp Asn Leu Ser Pro Gly Leu Glu Tyr Asn Val Ser Val Tyr
 1235 1240 1245
 Thr Val Lys Asp Asp Lys Glu Ser Val Pro Ile Ser Asp Thr Ile Ile
 1250 1255 1260
 Pro Ala Val Pro Pro Pro Thr Asp Leu Arg Phe Thr Asn Ile Gly Pro
 1265 1270 1275 1280
 Asp Thr Met Arg Val Thr Trp Ala Pro Pro Pro Ser Ile Asp Leu Thr
 1285 1290 1295
 Asn Phe Leu Val Arg Tyr Ser Pro Val Lys Asn Glu Glu Asp Val Ala
 1300 1305 1310
 Glu Leu Ser Ile Ser Pro Ser Asp Asn Ala Val Val Leu Thr Asn Leu
 1315 1320 1325
 Leu Pro Gly Thr Glu Tyr Val Val Ser Val Ser Ser Val Tyr Glu Gln
 1330 1335 1340
 His Glu Ser Thr Pro Leu Arg Gly Arg Gln Lys Thr Gly Leu Asp Ser
 1345 1350 1355 1360
 Pro Thr Gly Ile Asp Phe Ser Asp Ile Thr Ala Asn Ser Phe Thr Val
 1365 1370 1375
 His Trp Ile Ala Pro Arg Ala Thr Ile Thr Gly Tyr Arg Ile Arg His
 1380 1385 1390
 His Pro Glu His Phe Ser Gly Arg Pro Arg Glu Asp Arg Val Pro His
 1395 1400 1405
 Ser Arg Asn Ser Ile Thr Leu Thr Asn Leu Thr Pro Gly Thr Glu Tyr
 1410 1415 1420
 Val Val Ser Ile Val Ala Leu Asn Gly Arg Glu Glu Ser Pro Leu Leu
 1425 1430 1435 1440
 Ile Gly Gln Gln Ser Thr Val Ser Asp Val Pro Arg Asp Leu Glu Val
 1445 1450 1455
 Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala
 1460 1465 1470
 Val Thr Val Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn
 1475 1480 1485
 Ser Pro Val Gln Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr
 1490 1495 1500
 Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala
 1505 1510 1515 1520
 Val Thr Gly Arg Gly Asp Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile
 1525 1530 1535
 Asn Tyr Arg Thr Glu Ile Asp Lys Pro Ser Gln Met Gln Val Thr Asp
 1540 1545 1550
 Val Gln Asp Asn Ser Ile Ser Val Lys Trp Leu Pro Ser Ser Ser Pro
 1555 1560 1565
 Val Thr Gly Tyr Arg Val Thr Thr Thr Pro Lys Asn Gly Pro Gly Pro
 1570 1575 1580
 Thr Lys Thr Lys Thr Ala Gly Pro Asp Gln Thr Glu Met Thr Ile Glu
 1585 1590 1595 1600
 Gly Leu Gln Pro Thr Val Glu Tyr Val Val Ser Val Tyr Ala Gln Asn

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1605 1610 1615
 Pro Ser Gly Glu Ser Gln Pro Leu Val Gln Thr Ala Val Thr Asn Ile
 1620 1625 1630
 Asp Arg Pro Lys Gly Leu Ala Phe Thr Asp Val Asp Val Asp Ser Ile
 1635 1640 1645
 Lys Ile Ala Trp Glu Ser Pro Gln Gly Gln Val Ser Arg Tyr Arg Val
 1650 1655 1660
 Thr Tyr Ser Ser Pro Glu Asp Gly Ile His Glu Leu Phe Pro Ala Pro
 1665 1670 1675 1680
 Asp Gly Glu Glu Asp Thr Ala Glu Leu Gln Gly Leu Arg Pro Gly Ser
 1685 1690 1695
 Glu Tyr Thr Val Ser Val Val Ala Leu His Asp Asp Met Glu Ser Gln
 1700 1705 1710
 Pro Leu Ile Gly Thr Gln Ser Thr Ala Ile Pro Ala Pro Thr Asp Leu
 1715 1720 1725
 Lys Phe Thr Gln Val Thr Pro Thr Ser Leu Ser Ala Gln Trp Thr Pro
 1730 1735 1740
 Pro Asn Val Gln Leu Thr Gly Tyr Arg Val Arg Val Thr Pro Lys Glu
 1745 1750 1755 1760
 Lys Thr Gly Pro Met Lys Glu Ile Asn Leu Ala Pro Asp Ser Ser Ser
 1765 1770 1775
 Val Val Val Ser Gly Leu Met Val Ala Thr Lys Tyr Glu Val Ser Val
 1780 1785 1790
 Tyr Ala Leu Lys Asp Thr Leu Thr Ser Arg Pro Ala Gln Gly Val Val
 1795 1800 1805
 Thr Thr Leu Glu Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp
 1810 1815 1820
 Ala Thr Glu Thr Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr
 1825 1830 1835 1840
 Ile Thr Gly Phe Gln Val Asp Ala Val Pro Ala Asn Gly Gln Thr Pro
 1845 1850 1855
 Ile Gln Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly
 1860 1865 1870
 Leu Gln Pro Gly Thr Asp Tyr Lys Ile Tyr Leu Tyr Thr Leu Asn Asp
 1875 1880 1885
 Asn Ala Arg Ser Ser Pro Val Val Ile Asp Ala Ser Thr Ala Ile Asp
 1890 1895 1900
 Ala Pro Ser Asn Leu Arg Phe Leu Ala Thr Thr Pro Asn Ser Leu Leu
 1905 1910 1915 1920
 Val Ser Trp Gln Pro Pro Arg Ala Arg Ile Thr Gly Tyr Ile Ile Lys
 1925 1930 1935
 Tyr Glu Lys Pro Gly Ser Pro Pro Arg Glu Val Val Pro Arg Pro Arg
 1940 1945 1950
 Pro Gly Val Thr Glu Ala Thr Ile Thr Gly Leu Glu Pro Gly Thr Glu
 1955 1960 1965
 Tyr Thr Ile Tyr Val Ile Ala Leu Lys Asn Asn Gln Lys Ser Glu Pro
 1970 1975 1980
 Leu Ile Gly Arg Lys Lys Thr Asp Glu Leu Pro Gln Leu Val Thr Leu
 1985 1990 1995 2000
 Pro His Pro Asn Leu His Gly Pro Glu Ile Leu Asp Val Pro Ser Thr
 2005 2010 2015
 Val Gln Lys Thr Pro Phe Val Thr His Pro Gly Tyr Asp Thr Gly Asn
 2020 2025 2030
 Gly Ile Gln Leu Pro Gly Thr Ser Gly Gln Gln Pro Ser Val Gly Gln
 2035 2040 2045
 Gln Met Ile Phe Glu Glu His Gly Phe Arg Arg Thr Thr Pro Pro Thr
 2050 2055 2060
 Thr Ala Thr Pro Ile Arg His Arg Pro Arg Pro Tyr Pro Pro Asn Val
 2065 2070 2075 2080
 Gly Glu Glu Ile Gln Ile Gly His Ile Pro Arg Glu Asp Val Asp Tyr
 2085 2090 2095
 His Leu Tyr Pro His Gly Pro Gly Leu Asn Pro Asn Ala Ser Thr Gly
 2100 2105 2110

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Gln Glu Ala Leu Ser Gln Thr Thr Ile Ser Trp Ala Pro Phe Gln Asp
 2115 2120 2125
 Thr Ser Glu Tyr Ile Ile Ser Cys His Pro Val Gly Thr Asp Glu Glu
 2130 2135 2140
 Pro Leu Gln Phe Arg Val Pro Gly Thr Ser Thr Ser Ala Thr Leu Thr
 2145 2150 2155 2160
 Gly Leu Thr Arg Gly Ala Thr Tyr Asn Val Ile Val Glu Ala Leu Lys
 2165 2170 2175
 Asp Gln Gln Arg His Lys Val Arg Glu Glu Val Val Thr Val Gly Asn
 2180 2185 2190
 Ser Val Asn Glu Gly Leu Asn Gln Pro Thr Asp Asp Ser Cys Phe Asp
 2195 2200 2205
 Pro Tyr Thr Val Ser His Tyr Ala Val Gly Asp Glu Trp Glu Arg Met
 2210 2215 2220
 Ser Glu Ser Gly Phe Lys Leu Leu Cys Gln Cys Leu Gly Phe Gly Ser
 2225 2230 2235 2240
 Gly His Phe Arg Cys Asp Ser Ser Arg Trp Cys His Asp Asn Gly Val
 2245 2250 2255
 Asn Tyr Lys Ile Gly Glu Lys Trp Asp Arg Gln Gly Glu Asn Gly Gln
 2260 2265 2270
 Met Met Ser Cys Thr Cys Leu Gly Asn Gly Lys Gly Glu Phe Lys Cys
 2275 2280 2285
 Asp Pro His Glu Ala Thr Cys Tyr Asp Asp Gly Lys Thr Tyr His Val
 2290 2295 2300
 Gly Glu Gln Trp Gln Lys Glu Tyr Leu Gly Ala Ile Cys Ser Cys Thr
 2305 2310 2315 2320
 Cys Phe Gly Gly Gln Arg Gly Trp Arg Cys Asp Asn Cys Arg Arg Pro
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 Gly Gly Glu Pro Ser Pro Glu Gly Thr Thr Gly Gln Ser Tyr Asn Gln
 2340 2345 2350
 Tyr Ser Gln Arg Tyr His Gln Arg Thr Asn Thr Asn Val Asn Cys Pro
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 Arg Glu
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<212> PRT

<213> Homo sapiens

<400> 33

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 Ala Ser Tyr Ala Leu Ala Phe Trp Tyr Gly Thr Thr Leu Val Leu Ser
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 Gly Glu Tyr Ser Ile Gly Gln Val Leu Thr Val Phe Phe Ser Val Leu
 50 55 60
 Ile Gly Ala Phe Ser Val Gly Gln Ala Ser Pro Ser Ile Glu Ala Phe
 65 70 75 80
 Ala Asn Ala Arg Gly Ala Ala Tyr Glu Ile Phe Lys Ile Ile Asp Asn
 85 90 95
 Lys Pro Ser Ile Asp Ser Tyr Ser Lys Ser Gly His Lys Pro Asp Asn
 100 105 110
 Ile Lys Gly Asn Leu Glu Phe Arg Asn Val His Phe Ser Tyr Pro Ser
 115 120 125
 Arg Lys Glu Val Lys Ile Leu Lys Gly Leu Asn Leu Lys Val Gln Ser
 130 135 140
 Gly Gln Thr Val Ala Leu Val Gly Asn Ser Gly Cys Gly Lys Ser Thr
 145 150 155 160

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Thr	Val	Gln	Leu	Met	Gln	Arg	Leu	Tyr	Asp	Pro	Thr	Glu	Gly	Met	Val
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Ser	Val	Asp	Gly	Gln	Asp	Ile	Arg	Thr	Ile	Asn	Val	Arg	Phe	Leu	Arg
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	210					215					220				
Ile	Glu	Lys	Ala	Val	Lys	Glu	Ala	Asn	Ala	Tyr	Asp	Phe	Ile	Met	Lys
225					230					235				240	
Leu	Pro	His	Lys	Phe	Asp	Thr	Leu	Val	Gly	Glu	Arg	Gly	Ala	Gln	Leu
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Ser	Gly	Gly	Gln	Lys	Gln	Arg	Ile	Ala	Ile	Ala	Arg	Ala	Leu	Val	Arg
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Asn	Pro	Lys	Ile	Leu	Leu	Leu	Asp	Glu	Ala	Thr	Ser	Ala	Leu	Asp	Thr
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Arg	Thr	Thr	Ile	Val	Ile	Ala	His	Arg	Leu	Ser	Thr	Val	Arg	Asn	Ala
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Asp	Val	Ile	Ala	Gly	Phe	Asp	Asp	Gly	Val	Ile	Val	Glu	Lys	Gly	Asn
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His	Asp	Glu	Leu	Met	Lys	Glu	Lys	Gly	Ile	Tyr	Phe	Lys	Leu	Val	Thr
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Met	Gln	Asp	Glu	Ser	Ile	Pro	Pro	Val	Ser	Phe	Trp	Arg	Ile	Met	Lys
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Leu	Asn	Leu	Thr	Glu	Trp	Pro	Tyr	Phe	Val	Val	Gly	Val	Phe	Cys	Ala
	370					375					380				
Ile	Ile	Asn	Gly	Gly	Leu	Gln	Pro	Ala	Phe	Ala	Ile	Ile	Phe	Ser	Lys
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Ile	Ile	Gly	Val	Phe	Thr	Arg	Ile	Asp	Asp	Pro	Glu	Thr	Lys	Arg	Gln
				405				410						415	
Asn	Ser	Asn	Leu	Phe	Ser	Leu	Leu	Phe	Leu	Ala	Leu	Gly	Ile	Ile	Ser
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Phe	Ile	Thr	Phe	Phe	Leu	Gln	Gly	Phe	Thr	Phe	Gly	Lys	Ala	Gly	Glu
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	450					455					460				
Gln	Asp	Val	Ser	Trp	Phe	Asp	Asp	Pro	Lys	Asn	Thr	Thr	Gly	Ala	Leu
465					470					475					480
Thr	Thr	Arg	Leu	Ala	Asn	Asp	Ala	Ala	Gln	Val	Lys	Gly	Ala	Ile	Gly
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Ser	Arg	Leu	Ala	Val	Ile	Thr	Gln	Asn	Ile	Ala	Asn	Leu	Gly	Thr	Gly
			500					505					510		
Ile	Ile	Ile	Ser	Phe	Ile	Tyr	Gly	Trp	Gln	Leu	Thr	Leu	Leu	Leu	Leu
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Leu	Leu	Val	Phe	Ser	Ala	Val	Val	Phe	Gly	Ala	Met	Ala	Val	Gly	Gln
				645					650					655	
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His	Ile	Ile	660	Ile	Ile	Glu	Lys	665	Thr	Pro	Leu	Ile	Asp	670	Ser	Tyr	Ser
Thr	Glu	Gly	675	Leu	Met	Pro	Asn	680	Thr	Leu	Glu	Gly	Asn	685	Val	Thr	Phe
Glu	Val	Val	690	Phe	Asn	Tyr	Pro	695	Thr	Arg	Pro	Asp	Ile	700	Pro	Val	Leu
Gly	Leu	Ser	705	Leu	Glu	Val	Lys	710	Lys	Gly	Gln	Thr	Leu	715	Ala	Leu	Gln
Ser	Ser	Gly	720	Cys	Gly	Lys	Ser	725	Thr	Val	Val	Gln	Leu	730	Leu	Glu	Arg
Tyr	Asp	Pro	735	Leu	Ala	Gly	Lys	740	Val	Leu	Ile	Cys	Glu	745	Leu	Phe	Gln
Leu	Asp	Gly	750	Lys	Glu	Ile	Lys	755	Arg	Leu	Asn	Val	Gln	760	Trp	Leu	Arg
His	Leu	Gly	765	Ile	Val	Ser	Gln	770	Glu	Pro	Ile	Leu	Phe	775	Asp	Cys	Ser
Ala	Glu	Asn	780	Ile	Ala	Tyr	Gly	785	Asp	Asn	Ser	Arg	Val	790	Val	Ser	Gln
Glu	Ile	Val	800	Arg	Ala	Ala	Lys	805	Glu	Ala	Asn	Ile	His	810	Ala	Phe	Ile
Ser	Leu	Pro	815	Asn	Lys	Tyr	Ser	820	Thr	Lys	Val	Gly	Asp	825	Lys	Gly	Thr
Leu	Ser	Gly	830	Gly	Gln	Lys	Gln	835	Arg	Ile	Ala	Ile	Ala	840	Arg	Ala	Leu
Arg	Gln	Pro	845	His	Ile	Leu	Leu	850	Asp	Glu	Ala	Thr	Ser	855	Ala	Leu	Asp
Thr	Glu	Ser	860	Glu	Lys	Val	Val	865	Gln	Glu	Ala	Leu	Asp	870	Lys	Ala	Arg
Gly	Arg	Thr	875	Cys	Ile	Val	Ile	880	Ala	His	Arg	Leu	Ser	885	Thr	Ile	Gln
Ala	Asp	Leu	890	Ile	Val	Val	Phe	900	Gln	Asn	Gly	Arg	Val	905	Lys	Glu	His
Thr	His	Gln	910	Gln	Leu	Leu	Ala	915	Gln	Lys	Gly	Ile	Tyr	920	Phe	Ser	Met
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945						950											

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<400> 34

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	Pro	His	Val	Phe	Leu	Leu	Phe	Ile	Thr	Phe	Pro	Ile	Leu	Phe	Ile
	Trp	Gly	Ser	Gln	Ser	Ser	Lys	Val	Gln	Ile	His	His	Asn	Thr	Trp
	His	Phe	Pro	Gly	His	Asn	Leu	Arg	Trp	Ile	Leu	Thr	Phe	Ala	Leu
65	Phe	Val	His	Val	Cys	Glu	Ile	Ala	Glu	Gly	Ile	Val	Ser	Asp	Ser
	Arg	Glu	Ser	Arg	His	Leu	His	Leu	Phe	Met	Pro	Ala	Val	Met	Gly
	Val	Ala	Thr	Thr	Thr	Ser	Ile	Val	Tyr	Tyr	His	Asn	Ile	Glu	Thr
	Asn	Phe	Pro	Lys	Leu	Leu	Leu	Ala	Leu	Phe	Leu	Tyr	Trp	Val	Met
130	Phe	Ile	Thr	Lys	Thr	Ile	Lys	Leu	Val	Lys	Tyr	Cys	Gln	Ser	Gly
															Leu

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	Asn	Gly	Leu	Leu	Met	Ala	Val	Glu	Ile	Asn	Val	Ile	Arg	Val	Arg	Arg			
				180					185							190			
	Tyr	Val	Phe	Phe	Met	Asn	Pro	Gln	Lys	Val	Lys	Pro	Pro	Glu	Asp	Leu			
			195					200						205					
	Gln	Asp	Leu	Gly	Val	Arg	Phe	Leu	Gln	Pro	Phe	Val	Asn	Leu	Leu	Ser			
		210					215						220						
	Lys	Ala	Thr	Tyr	Trp	Trp	Met	Asn	Thr	Leu	Ile	Ile	Ser	Ala	His	Lys			
		225				230					235					240			
	Lys	Pro	Ile	Asp	Leu	Lys	Ala	Ile	Gly	Lys	Leu	Pro	Ile	Ala	Met	Arg			
				245						250					255				
	Ala	Val	Thr	Asn	Tyr	Val	Cys	Leu	Lys	Asp	Ala	Tyr	Glu	Glu	Gln	Lys			
				260					265					270					
	Lys	Lys	Val	Ala	Asp	His	Pro	Asn	Arg	Thr	Pro	Ser	Ile	Trp	Leu	Ala			
			275					280					285						
	Met	Tyr	Arg	Ala	Phe	Gly	Arg	Pro	Ile	Leu	Leu	Ser	Ser	Thr	Phe	Arg			
		290					295					300							
	Tyr	Leu	Ala	Asp	Leu	Leu	Gly	Phe	Ala	Gly	Pro	Leu	Cys	Ile	Ser	Gly			
		305				310					315					320			
	Ile	Val	Gln	Arg	Val	Asn	Glu	Thr	Gln	Asn	Gly	Thr	Asn	Asn	Thr	Thr			
				325						330					335				
	Gly	Ile	Ser	Glu	Thr	Leu	Ser	Ser	Lys	Glu	Phe	Leu	Glu	Asn	Ala	Tyr			
				340					345					350					
	Val	Leu	Ala	Val	Leu	Leu	Phe	Leu	Ala	Leu	Ile	Leu	Gln	Arg	Thr	Phe			
			355					360					365						
	Leu	Gln	Ala	Ser	Tyr	Tyr	Val	Thr	Ile	Glu	Thr	Gly	Ile	Asn	Leu	Arg			
		370				375						380							
	Gly	Ala	Leu	Leu	Ala	Met	Ile	Tyr	Asn	Lys	Ile	Leu	Arg	Leu	Ser	Thr			
		385				390					395					400			
	Ser	Asn	Leu	Ser	Met	Gly	Glu	Met	Thr	Leu	Gly	Gln	Ile	Asn	Asn	Leu			
				405						410					415				
	Val	Ala	Ile	Glu	Thr	Asn	Gln	Leu	Met	Trp	Phe	Leu	Phe	Leu	Cys	Pro			
				420					425					430					
	Asn	Leu	Trp	Ala	Met	Pro	Val	Gln	Ile	Ile	Met	Gly	Val	Ile	Leu	Leu			
		435						440					445						
	Tyr	Asn	Leu	Leu	Gly	Ser	Ser	Ala	Leu	Val	Gly	Ala	Ala	Val	Ile	Val			
		450				455						460							
	Leu	Leu	Ala	Pro	Ile	Gln	Tyr	Phe	Ile	Ala	Thr	Lys	Leu	Ala	Glu	Ala			
		465				470					475				480				
	Gln	Lys	Ser	Thr	Leu	Asp	Tyr	Ser	Thr	Glu	Arg	Leu	Lys	Lys	Thr	Asn			
				485						490					495				
	Glu	Ile	Leu	Lys	Gly	Ile	Lys	Leu	Leu	Lys	Leu	Tyr	Ala	Trp	Glu	His			
				500					505					510					
	Ile	Phe	Cys	Lys	Ser	Val	Glu	Glu	Thr	Arg	Met	Lys	Glu	Leu	Ser	Ser			
			515					520					525						
	Leu	Lys	Thr	Phe	Ala	Leu	Tyr	Thr	Ser	Leu	Ser	Ser	Lys	Leu	Leu	Thr			
		530					535					540							
	Pro	Phe	Phe	Ala	Gln	Thr	Phe	Val	Thr	His	Ala	Tyr	Ala	Ser	Gly	Asn			
		545				550					555				560				
	Asn	Leu	Lys	Pro	Ala	Glu	Ala	Phe	Ala	Ser	Leu	Ser	Leu	Phe	His	Ile			
				565						570					575				
	Leu	Val	Thr	Pro	Leu	Phe	Leu	Leu	Ser	Thr	Val	Val	Arg	Phe	Ala	Val			
				580					585					590					
	Lys	Ala	Ile	Ser	Val	Gln	Lys	Leu	Asn	Glu	Phe	Leu	Leu	Ser	Asp				
			595				600					605							
	Glu	Ile	Gly	Asp	Asp	Ser	Trp	Arg	Thr	Gly	Glu	Ser	Ser	Leu	Pro	Phe			
		610				615						620							
	Glu	Ser	Cys	Lys	Lys	His	Thr	Gly	Val	Gln	Pro	Lys	Thr	Ile	Asn	Arg			
		625				630					635					640			
	Lys	Gln	Pro	Gly	Arg	Tyr	His	Leu	Asp	Ser	Tyr	Glu	Gln	Ser	Thr	Arg			
				645						650					655				

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Arg	Leu	Arg	Pro	Ala	Glu	Thr	Glu	Asp	Ile	Ala	Ile	Lys	Val	Thr	Asn
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Gly	Tyr	Phe	Ser	Trp	Gly	Ser	Gly	Leu	Ala	Thr	Leu	Ser	Asn	Ile	Asp
		675					680					685			
Ile	Arg	Ile	Pro	Thr	Gly	Gln	Leu	Thr	Met	Ile	Val	Gly	Gln	Val	Gly
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Cys	Gly	Lys	Ser	Ser	Leu	Leu	Leu	Ala	Ile	Leu	Gly	Glu	Met	Gln	Thr
705					710					715					720
Leu	Glu	Gly	Lys	Val	His	Trp	Ser	Lys	Tyr	Val	Tyr	Phe	Tyr	Arg	Asn
				725					730					735	
Arg	Tyr	Ser	Val	Ala	Tyr	Ala	Ala	Gln	Lys	Pro	Trp	Leu	Leu	Asn	Ala
			740					745					750		
Thr	Val	Glu	Glu	Asn	Ile	Thr	Phe	Gly	Ser	Pro	Phe	Asn	Lys	Gln	Arg
		755					760					765			
Tyr	Lys	Ala	Val	Thr	Asp	Ala	Cys	Ser	Leu	Gln	Pro	Asp	Ile	Asp	Leu
	770					775					780				
Leu	Pro	Phe	Gly	Asp	Gln	Thr	Glu	Ile	Gly	Glu	Arg	Gly	Ile	Asn	Leu
785					790					795					800
Ser	Gly	Gly	Gln	Arg	Gln	Arg	Ile	Cys	Val	Ala	Arg	Ala	Leu	Tyr	Gln
				805					810					815	
Asn	Thr	Asn	Ile	Val	Phe	Leu	Asp	Asp	Pro	Phe	Ser	Ala	Leu	Asp	Ile
			820					825					830		
His	Leu	Ser	Asp	His	Leu	Met	Gln	Glu	Gly	Ile	Leu	Lys	Phe	Leu	Gln
		835					840					845			
Asp	Asp	Lys	Arg	Thr	Leu	Val	Leu	Val	Thr	His	Lys	Leu	Gln	Tyr	Leu
	850					855					860				
Thr	His	Ala	Asp	Trp	Ile	Ile	Ala	Met	Lys	Asp	Gly	Ser	Val	Leu	Arg
865					870					875					880
Glu	Gly	Thr	Leu	Lys	Asp	Ile	Gln	Thr	Lys	Asp	Val	Glu	Leu	Tyr	Glu
				885					890					895	
His	Trp	Lys	Thr	Leu	Met	Asn	Arg	Gln	Asp	Gln	Glu	Leu	Glu	Lys	Asp
			900					905					910		
Met	Glu	Ala	Asp	Gln	Thr	Thr	Leu	Glu	Arg	Lys	Thr	Leu	Arg	Arg	Ala
		915					920					925			
Met	Tyr	Ser	Arg	Glu	Ala	Lys	Ala	Gln	Met	Glu	Asp	Glu	Asp	Glu	Glu
	930					935					940				
Glu	Glu	Glu	Glu	Glu	Asp	Glu	Asp	Asp	Asn	Met	Ser	Thr	Val	Met	Arg
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Leu	Arg	Thr	Lys	Met	Pro	Trp	Lys	Thr	Cys	Trp	Arg	Tyr	Leu	Thr	Ser
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Gly	Gly	Phe	Phe	Leu	Leu	Ile	Leu	Met	Ile	Phe	Ser	Lys	Leu	Leu	Lys
			980					985					990		
His	Ser	Val	Ile	Val	Ala	Ile	Asp	Tyr	Trp	Leu	Ala	Thr	Trp	Thr	Ser
		995					1000					1005			
Glu	Tyr	Ser	Ile	Asn	Asn	Thr	Gly	Lys	Ala	Asp	Gln	Thr	Tyr	Tyr	Val
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Thr	Ser	Leu	Thr	Val	Glu	Trp	Met	Gly	Leu	Thr	Ala	Ala	Lys	Asn	Leu
				1045					1050					1055	
His	His	Asn	Leu	Leu	Asn	Lys	Ile	Ile	Leu	Gly	Pro	Ile	Arg	Phe	Phe
			1060					1065					1070		
Asp	Thr	Thr	Pro	Leu	Gly	Leu	Ile	Leu	Asn	Arg	Phe	Ser	Ala	Asp	Thr
		1075					1080					1085			
Asn	Ile	Ile	Asp	Gln	His	Ile	Pro	Pro	Thr	Leu	Glu	Ser	Leu	Thr	Arg
	1090					1095					1100				
Ser	Thr	Leu	Leu	Cys	Leu	Ser	Ala	Ile	Gly	Met	Ile	Ser	Tyr	Ala	Thr
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Pro	Val	Phe	Leu	Val	Ala	Leu	Leu	Pro	Leu	Gly	Val	Ala	Phe	Tyr	Phe
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Ile	Gln	Lys	Tyr	Phe	Arg	Val	Ala	Ser	Lys	Asp	Leu	Gln	Glu	Leu	Asp
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Asp	Ser	Thr	Gln	Leu	Pro	Leu	Leu	Cys	His	Phe	Ser	Glu	Thr	Ala	Glu

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 Ser Ala Ala Asn Arg Trp Leu Glu Val Arg Thr Asp Tyr Leu Gly Ala
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 Cys Ile Val Leu Thr Ala Ser Ile Ala Ser Ile Ser Gly Ser Ser Asn
 1220 1225 1230
 Ser Gly Leu Val Gly Leu Gly Leu Leu Tyr Ala Leu Thr Ile Thr Asn
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 Tyr Leu Asn Trp Val Val Arg Asn Leu Ala Asp Leu Glu Val Gln Met
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 Gly Ala Val Lys Lys Val Asn Ser Phe Leu Thr Met Glu Ser Glu Asn
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 Tyr Glu Gly Thr Met Asp Pro Ser Gln Val Pro Glu His Trp Pro Gln
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 Glu Gly Glu Ile Lys Ile His Asp Leu Cys Val Arg Tyr Glu Asn Asn
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 Leu Lys Pro Val Leu Lys His Val Lys Ala Tyr Ile Lys Pro Gly Gln
 1315 1320 1325
 Lys Val Gly Ile Cys Gly Arg Thr Gly Ser Gly Lys Ser Ser Leu Ser
 1330 1335 1340
 Leu Ala Phe Phe Arg Met Val Asp Ile Phe Asp Gly Lys Ile Val Ile
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 Leu Ser Ile Ile Leu Gln Asp Pro Ile Leu Phe Ser Gly Ser Ile Arg
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 1395 1400 1405
 Ala Leu Glu Ile Ala Gln Leu Lys Asn Met Val Lys Ser Leu Pro Gly
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 1425 1430 1435 1440
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 1460 1465 1470
 Asn Ile Leu Gln Lys Val Val Met Thr Ala Phe Ala Asp Arg Thr Val
 1475 1480 1485
 Val Thr Ile Ala His Arg Val His Thr Ile Leu Thr Ala Asp Leu Val
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 <213> Homo sapiens

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 35 40 45
 Ala Cys Gly Gln Arg Ser Ser Ala Ala His Lys Arg Tyr Arg Arg Leu
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50	Gln	Asn	Trp	Gly	Tyr	55	Val	Leu	Glu	Arg	60	Pro	Arg	Gly	Trp	Ala	Phe
65	Val	Tyr	His	Val	Phe	70	Ile	Phe	Leu	Leu	75	Val	Phe	Ser	Cys	Leu	Val
				85	Thr	Ile	Gln	Glu	His	90	Gln	Glu	Leu	Ala	Asn	Glu	Cys
	Ser	Val	Leu	100	Glu	Phe	Val	Met	105	Ile	Val	Val	Phe	Gly	110	Leu	Glu
	Leu	Leu	Ile	115	Val	Trp	Ser	Ala	120	Gly	Cys	Cys	Cys	Arg	Tyr	Arg	Gly
	Ile	Val	Arg	130	Val	Trp	Ser	Ala	135	Gly	Cys	Cys	Cys	Arg	Tyr	Arg	Gly
	Gln	Gly	Arg	Phe	Arg	Phe	150	Val	Ala	Val	Ile	155	Ala	Ala	Gly	Thr	Gln
145	Ile	Val	Phe	Val	Ala	165	Ser	Val	Ala	Val	170	Ala	Ala	Gly	Thr	Gln	Gly
	Asn	Ile	Phe	Ala	180	Thr	Ser	Ala	Leu	Arg	185	Ser	Met	Arg	Phe	Leu	Gln
	Leu	Arg	Met	195	Val	Arg	Met	Asp	200	Arg	Arg	Gly	Gly	Thr	Trp	Lys	Leu
	Gly	Ser	Val	Val	Tyr	Ala	His	215	Ser	Lys	Glu	Leu	Ile	220	Thr	Ala	Trp
	Ile	Gly	Phe	Leu	Val	Leu	Ile	Phe	Ala	Ser	Phe	Leu	Val	Tyr	Leu	Ala	240
225	Glu	Lys	Asp	Ala	Asn	230	Ser	Asp	Phe	Ser	235	Tyr	Ala	Asp	Ser	Leu	Trp
	Trp	Gly	Thr	Ile	245	Thr	Leu	Thr	Thr	Ile	250	Gly	Tyr	Gly	Asp	Lys	Thr
	His	Thr	Trp	Leu	260	Gly	Arg	Val	Leu	Ala	265	Gly	Tyr	Gly	Asp	Lys	Thr
	Ile	Ser	Phe	Phe	Ala	Leu	Pro	Ala	Gly	Ile	280	Gly	Ile	Leu	Gly	Ser	Gly
	Leu	Lys	Val	Gln	Glu	Gln	His	Arg	Gln	Lys	300	Phe	Glu	Lys	Arg	Arg	320
305	Met	Pro	Ala	Ala	Asn	310	Leu	Ile	Gln	Ala	315	Ala	Trp	Arg	Leu	Tyr	Ser
	Asp	Met	Ser	Arg	325	Ala	Tyr	Leu	Thr	Ala	330	Thr	Trp	Tyr	Tyr	Tyr	Asp
	Ile	Leu	Pro	Ser	340	Phe	Arg	Glu	Leu	Ala	345	Leu	Leu	Phe	Glu	His	Val
	Arg	Ala	Arg	Asn	Gly	Gly	Leu	Arg	Pro	Leu	360	Glu	Val	Arg	Arg	Ala	Pro
	Val	Pro	Asp	Gly	Ala	Pro	Ser	Arg	Tyr	Pro	375	Pro	Pro	Val	Ala	Thr	Cys
385	Arg	Pro	Gly	Ser	Thr	390	Ser	Phe	Cys	Pro	395	Gly	Glu	Ser	Ser	Arg	Met
	Ile	Lys	Asp	Arg	Ile	405	Arg	Met	Gly	Ser	410	Ser	Ser	Gln	Arg	Arg	Thr
	Ser	Lys	Gln	His	Leu	Ala	Pro	Pro	Thr	Met	425	Pro	Pro	Thr	Ser	Pro	Ser
	Glu	Gln	Val	Gly	Glu	Ala	Thr	Arg	Phe	Arg	440	Pro	Thr	Lys	Val	Gln	Lys
	Ser	Phe	Asn	Asp	Arg	Thr	Arg	Phe	Arg	Ala	455	Ser	Leu	Arg	Leu	Lys	Pro
465	Arg	Thr	Ser	Ala	Glu	Asp	Ala	Pro	Ser	Glu	470	Glu	Glu	Val	Ala	Glu	Glu
	Ser	Tyr	Gln	Cys	Glu	Leu	Thr	Val	Asp	Ile	485	Met	Pro	Ala	Val	Lys	Lys
	Thr	Val	Ile	Arg	Ser	Ile	Arg	Ile	Leu	Lys	500	Phe	Leu	Val	Ala	Lys	Arg
	Lys	Phe	Lys	Glu	Thr	Leu	Arg	Pro	Tyr	Asp	505	Val	Lys	Asp	Val	Ile	Glu
	Gln	Tyr	Ser	Ala	Gly	His	Leu	Asp	Met	Leu	520	Gly	Arg	Ile	Lys	Ser	Leu
545						550					555						560

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Gln Thr Arg Val Asp Gln Ile Val Gly Arg Gly Pro Gly Asp Arg Lys
 565 570 575
 Ala Arg Glu Lys Gly Asp Lys Gly Pro Ser Asp Ala Glu Val Val Asp
 580 585 590
 Glu Ile Ser Met Met Gly Arg Val Val Lys Val Glu Lys Gln Val Gln
 595 600 605
 Ser Ile Glu His Lys Leu Asp Leu Leu Val Gly Phe Tyr Ser Arg Trp
 610 615 620
 Leu Arg Ser Gly Thr Ser Ala Ser Leu Gly Ala Val Gln Val Pro Leu
 625 630 635 640
 Phe Asp Pro Asp Ile Thr Ser Asp Tyr His Ser Pro Val Asp His Glu
 645 650 655
 Asp Ile Ser Val Ser Ala Gln Thr Leu Ser Ile Ser Arg Ser Val Ser
 660 665 670
 Thr Asn Met Met Asp
 675

<210> 36

<211> 361

<212> PRT

<213> Homo sapiens

<400> 36

Gln Ile Phe Pro Trp Lys Cys Gln Ser Thr Gln Arg Asp Leu Trp Asn
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 Ile Phe Lys Leu Trp Gly Trp Thr Met Leu Cys Cys Asp Phe Leu Ala
 20 25 30
 His His Gly Thr Asp Cys Trp Thr Tyr His Tyr Ser Glu Lys Pro Met
 35 40 45
 Asn Trp Gln Arg Ala Arg Arg Phe Cys Arg Asp Asn Tyr Thr Asp Leu
 50 55 60
 Val Ala Ile Gln Asn Lys Ala Glu Ile Glu Tyr Leu Glu Lys Thr Leu
 65 70 75 80
 Pro Phe Ser Arg Ser Tyr Tyr Trp Ile Gly Ile Arg Lys Ile Gly Gly
 85 90 95
 Ile Trp Thr Trp Val Gly Thr Asn Lys Ser Leu Thr Glu Glu Ala Glu
 100 105 110
 Asn Trp Gly Asp Gly Glu Pro Asn Asn Lys Lys Asn Lys Glu Asp Cys
 115 120 125
 Val Glu Ile Tyr Ile Lys Arg Asn Lys Asp Ala Gly Lys Trp Asn Asp
 130 135 140
 Asp Ala Cys His Lys Leu Lys Ala Ala Leu Cys Tyr Thr Ala Ser Cys
 145 150 155 160
 Gln Pro Trp Ser Cys Ser Gly His Gly Glu Cys Val Glu Ile Ile Asn
 165 170 175
 Asn Tyr Thr Cys Asn Cys Asp Val Gly Tyr Tyr Gly Pro Gln Cys Gln
 180 185 190
 Phe Val Ile Gln Cys Glu Pro Leu Glu Ala Pro Glu Leu Gly Thr Met
 195 200 205
 Asp Cys Thr His Pro Leu Gly Asn Phe Ser Phe Ser Gln Cys Ala
 210 215 220
 Phe Ser Cys Ser Glu Gly Thr Asn Leu Thr Gly Ile Glu Glu Thr Thr
 225 230 235 240
 Cys Gly Pro Phe Gly Asn Trp Ser Ser Pro Glu Pro Thr Cys Gln Val
 245 250 255
 Ile Gln Cys Glu Pro Leu Ser Ala Pro Asp Leu Gly Ile Met Asn Cys
 260 265 270
 Ser His Pro Leu Ala Ser Phe Ser Phe Thr Ser Ala Cys Thr Phe Ile
 275 280 285
 Cys Ser Glu Gly Thr Glu Leu Ile Gly Lys Lys Lys Thr Ile Cys Glu
 290 295 300
 Ser Ser Gly Ile Trp Ser Asn Pro Ser Pro Ile Cys Gln Lys Leu Asp
 305 310 315 320

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Lys Ser Phe Ser Met Ile Lys Glu Gly Asp Tyr Asn Pro Leu Phe Ile
 325 330 335
 Pro Val Ala Val Met Val Thr Ala Phe Ser Gly Leu Ala Phe Ile Ile
 340 345 350
 Trp Leu Ala Arg Arg Leu Lys Lys Gly
 355 360

<210> 37
 <211> 611
 <212> PRT
 <213> Homo sapiens

<400> 37
 Gln Lys Glu Gly Lys Lys Glu Arg Ala Val Val Asp Lys Val Phe Phe
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 20 25 30
 Lys Glu Thr Gly Tyr Leu Val Leu Ile Ala Val Met Leu Val Ser Arg
 35 40 45
 Thr Tyr Cys Asp Val Trp Met Ile Gln Asn Gly Thr Leu Ile Glu Ser
 50 55 60
 Gly Ile Ile Gly Arg Ser Arg Lys Asp Phe Lys Arg Tyr Leu Leu Asn
 65 70 75 80
 Phe Ile Ala Ala Met Pro Leu Ile Ser Leu Val Asn Asn Phe Leu Lys
 85 90 95
 Tyr Gly Leu Asn Glu Leu Lys Leu Cys Phe Arg Val Arg Leu Thr Lys
 100 105 110
 Tyr Leu Tyr Glu Glu Tyr Leu Gln Ala Phe Thr Tyr Tyr Lys Met Gly
 115 120 125
 Asn Leu Asp Asn Arg Ile Ala Asn Pro Asp Gln Leu Leu Thr Gln Asp
 130 135 140
 Val Glu Lys Phe Cys Asn Ser Val Val Asp Leu Tyr Ser Asn Leu Ser
 145 150 155 160
 Lys Pro Phe Leu Asp Ile Val Leu Tyr Ile Phe Lys Leu Thr Ser Ala
 165 170 175
 Ile Gly Ala Gln Gly Pro Ala Ser Met Met Ala Tyr Leu Val Val Ser
 180 185 190
 Gly Leu Phe Leu Thr Arg Leu Arg Arg Pro Ile Gly Lys Met Thr Ile
 195 200 205
 Thr Glu Gln Lys Tyr Glu Gly Glu Tyr Arg Tyr Val Asn Ser Arg Leu
 210 215 220
 Ile Thr Asn Ser Glu Glu Ile Ala Phe Tyr Asn Gly Asn Lys Arg Glu
 225 230 235 240
 Lys Gln Thr Val His Ser Val Phe Arg Lys Leu Val Glu His Leu His
 245 250 255
 Asn Phe Ile Leu Phe Arg Phe Ser Met Gly Phe Ile Asp Ser Ile Ile
 260 265 270
 Ala Lys Tyr Leu Ala Thr Val Val Gly Tyr Leu Val Val Ser Arg Pro
 275 280 285
 Phe Leu Asp Leu Ser His Pro Arg His Leu Lys Ser Thr His Ser Glu
 290 295 300
 Leu Leu Glu Asp Tyr Tyr Gln Ser Gly Arg Met Leu Leu Arg Met Ser
 305 310 315 320
 Gln Ala Leu Gly Arg Ile Val Leu Ala Gly Arg Glu Met Thr Arg Leu
 325 330 335
 Ala Gly Phe Thr Ala Arg Ile Thr Glu Leu Met Gln Val Leu Lys Asp
 340 345 350
 Leu Asn His Gly Lys Tyr Glu Arg Thr Met Val Ser Gln Gln Glu Lys
 355 360 365
 Gly Ile Glu Gly Val Gln Val Ile Pro Leu Ile Pro Gly Ala Gly Glu
 370 375 380
 Ile Ile Ile Ala Asp Asn Ile Ile Lys Phe Asp His Val Pro Leu Ala
 385 390 395 400

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Thr Pro Asn Gly Asp Val Leu Ile Arg Asp Leu Asn Phe Glu Val Arg
 405 410
 Ser Gly Ala Asn Val Leu Ile Cys Gly Pro Asn Gly Cys Gly Lys Ser
 420 425 430
 Ser Leu Phe Arg Val Leu Gly Glu Leu Trp Pro Leu Phe Gly Gly Arg
 435 440 445
 Leu Thr Lys Pro Glu Arg Gly Lys Leu Phe Tyr Val Pro Gln Arg Pro
 450 455 460
 Tyr Met Thr Leu Gly Thr Leu Arg Asp Gln Val Ile Tyr Pro Asp Gly
 465 470 475 480
 Arg Glu Asp Gln Lys Arg Lys Gly Ile Ser Asp Leu Val Leu Lys Glu
 485 490 495
 Tyr Leu Asp Asn Val Gln Leu Gly His Ile Leu Glu Arg Glu Gly Gly
 500 505 510
 Trp Asp Ser Val Gln Asp Trp Met Asp Val Leu Ser Gly Gly Glu Lys
 515 520 525
 Gln Arg Met Ala Met Ala Arg Leu Phe Tyr His Lys Pro Gln Phe Ala
 530 535 540
 Ile Leu Asp Glu Cys Thr Ser Ala Val Ser Val Asp Val Glu Gly Tyr
 545 550 555 560
 Ile Tyr Ser His Cys Arg Lys Val Gly Ile Thr Leu Phe Thr Val Ser
 565 570 575
 His Arg Lys Ser Leu Trp Lys His His Glu Tyr Tyr Leu His Met Asp
 580 585 590
 Gly Arg Gly Asn Tyr Glu Phe Lys Gln Ile Thr Glu Asp Thr Val Glu
 595 600 605
 Phe Gly Ser
 610

<210> 38

<211> 522

<212> PRT

<213> Homo sapiens

<400> 38

Met Gly His Leu Leu Thr Leu Val Phe Ile Leu Ala Leu Ala Gly Pro
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 Val Leu Gly Leu Lys Glu Cys Thr Arg Gly Ser Ala Val Trp Cys Gln
 20 25 30
 Asn Val Lys Thr Ala Ser Asp Cys Gly Ala Val Lys His Cys Leu Gln
 35 40 45
 Thr Val Trp Asn Lys Pro Thr Val Lys Ser Leu Pro Cys Asp Ile Cys
 50 55 60
 Lys Asp Val Val Thr Ala Glu Gly Asp Met Leu Lys Asp Asn Ala Thr
 65 70 75 80
 Glu Glu Glu Ile Leu Val Tyr Leu Glu Lys Thr Cys Asp Trp Leu Pro
 85 90 95
 Lys Pro Asn Met Ser Ala Ser Cys Lys Glu Ile Val Asp Ser Tyr Leu
 100 105 110
 Pro Val Ile Leu Asp Ile Ile Lys Gly Glu Met Ser Arg Pro Gly Glu
 115 120 125
 Val Cys Ser Ala Leu Asn Leu Cys Glu Ser Leu Gln Lys His Leu Ala
 130 135 140
 Glu Leu Asn His Gln Lys Gln Leu Glu Ser Asn Lys Ile Pro Glu Leu
 145 150 155 160
 Asp Met Thr Glu Val Ala Pro Phe Met Ala Asn Ile Pro Leu Leu
 165 170 175
 Leu Tyr Pro Gln Asp Gly Pro Arg Ser Lys Pro Gln Pro Lys Asp Asn
 180 185 190
 Gly Asp Val Cys Gln Asp Cys Ile Gln Met Val Thr Asp Ile Gln Thr
 195 200 205
 Ala Val Arg Thr Asn Ser Thr Phe Val Gln Ala Leu Val Glu His Val
 210 215 220

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Lys Glu Glu Cys Asp Arg Leu Gly Pro Gly Met Ala Asp Ile Cys Lys
 225 230 235 240
 Asn Tyr Ile Ser Gln Tyr Ser Glu Ile Ala Ile Gln Met Met Met His
 245 250 255
 Met Gln Pro Lys Glu Ile Cys Ala Leu Val Gly Phe Cys Asp Glu Val
 260 265 270
 Lys Glu Met Pro Met Gln Thr Leu Val Pro Ala Lys Val Ala Ser Lys
 275 280 285
 Asn Val Ile Pro Ala Leu Glu Leu Val Glu Pro Ile Lys Lys His Glu
 290 295 300
 Val Pro Ala Lys Ser Asp Val Tyr Cys Glu Val Cys Glu Phe Leu Val
 305 310 315 320
 Lys Glu Val Thr Lys Leu Ile Asp Asn Asn Lys Thr Glu Lys Glu Ile
 325 330 335
 Leu Asp Ala Phe Asp Lys Met Cys Ser Lys Leu Pro Lys Ser Leu Ser
 340 345 350
 Glu Glu Cys Gln Glu Val Val Asp Thr Tyr Gly Ser Ser Ile Leu Ser
 355 360 365
 Ile Leu Leu Glu Glu Val Ser Pro Glu Leu Val Cys Ser Met Leu His
 370 375 380
 Leu Cys Ser Gly Thr Arg Leu Pro Ala Leu Thr Val His Val Thr Gln
 385 390 395 400
 Pro Lys Asp Gly Gln Phe Cys Glu Val Cys Lys Lys Leu Val Gly Tyr
 405 410 415
 Leu Asp Arg Asn Leu Glu Lys Asn Ser Thr Lys Gln Glu Ile Leu Ala
 420 425 430
 Ala Leu Glu Lys Gly Cys Ser Phe Leu Pro Asp Pro Tyr Gln Lys Gln
 435 440 445
 Cys Asp Gln Phe Val Ala Glu Tyr Glu Pro Val Leu Ile Glu Ile Leu
 450 455 460
 Val Glu Val Met Asp Pro Ser Phe Val Cys Leu Lys Ile Gly Ala Cys
 465 470 475 480
 Pro Ser Ala His Lys Pro Leu Leu Gly Thr Glu Lys Cys Ile Trp Gly
 485 490 495
 Pro Ser Tyr Trp Cys Gln Asn Thr Glu Thr Ala Ala Gln Cys Asn Ala
 500 505 510
 Val Glu His Cys Lys Arg His Val Trp Asn
 515 520

<210> 39

<211> 236

<212> PRT

<213> Homo sapiens

<400> 39

Leu Thr Glu Arg Ala Asp Phe Gln Tyr Ser Gln Arg Glu Leu Asp Thr
 1 5 10 15
 Ile Glu Val Phe Pro Thr Lys Ser Ala Arg Gly Asn Arg Val Ser Cys
 20 25 30
 Met Tyr Val Arg Cys Val Pro Gly Ala Arg Tyr Thr Val Phe Phe Ser
 35 40 45
 His Gly Asn Ala Val Asp Leu Ser Gln Met Ser Ser Phe Tyr Ile Gly
 50 55 60
 Leu Gly Ser Arg Leu His Cys Asn Ile Phe Tyr Asp Tyr Ser Gly Tyr
 65 70 75 80
 Gly Ala Ser Ala Gly Arg Pro Ser Glu Arg Asn Leu Tyr Ala Asp Ile
 85 90 95
 Asp Ala Ala Trp Gln Ala Leu His Thr Arg Tyr Gly Ile Ser Pro Asp
 100 105 110
 Ser Ile Ile Leu Tyr Gly Gln Ser Ile Gly Thr Val Pro Thr Val Asp
 115 120 125
 Leu Ala Ser Arg Tyr Glu Cys Ala Ala Val Val Leu His Ser Pro Leu
 130 135 140

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Thr 145	Ser	Gly	Met	Arg	Val 150	Ala	Phe	Pro	Asp	Thr 155	Lys	Thr	Tyr	Cys	Phe 160
Asp	Ala	Phe	Pro	Asn 165	Ile	Glu	Lys	Val	Ser 170	Lys	Ile	Thr	Ser	Pro	Val
Leu	Ile	Ile	His 180	Gly	Met	Glu	Asp	Glu 185	Val	Ile	Asp	Phe	Ser 190	His	Gly
Leu	Ala	Leu	Tyr	Glu	Arg	Cys	Pro 200	Lys	Ala	Val	Glu	Pro 205	Leu	Trp	Val
Glu	Gly 210	Ala	Gly	His	Asn 215	Asp	Ile	Glu	Leu	Tyr	Ser 220	Gln	Tyr	Leu	Glu
Arg 225	Leu	Arg	Arg	Phe	Ile 230	Ser	Gln	Glu	Leu	Pro 235	Ser				

<210> 40

<211> 4647

<212> PRT

<213> Homo sapiens

<400> 40

Met 1	Ser	Glu	Pro	Gly 5	Gly	Gly	Gly	Gly	Glu 10	Asp	Gly	Ser	Ala	Gly 15	Leu
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His	Leu	Arg 35	Lys	Leu	Val	Pro	Leu 40	Leu	Glu	Asp	Gly 45	Gly	Glu	Ala	
Pro	Ala 50	Ala	Leu	Glu	Ala 55	Ala	Leu	Glu	Glu	Lys	Ser 60	Ala	Leu	Glu	Gln
Met 65	Arg	Lys	Phe	Leu	Ser 70	Asp	Pro	Gln	Val	His 75	Thr	Val	Leu	Val	Glu 80
Arg	Ser	Thr	Leu	Lys 85	Glu	Asp	Val	Gly	Asp 90	Glu	Gly	Glu	Glu	Glu 95	Lys
Glu	Phe	Ile	Ser 100	Tyr	Asn	Ile	Asn	Ile 105	Asp	Ile	His	Tyr	Gly 110	Val	Lys
Ser	Asn	Ser 115	Leu	Ala	Phe	Ile	Lys 120	Arg	Thr	Pro	Val	Ile	Asp 125	Ala	Asp
Lys	Pro 130	Val	Ser	Ser	Gln	Leu 135	Arg	Val	Leu	Thr	Leu 140	Ser	Glu	Asp	Ser
Pro 145	Tyr	Glu	Thr	Leu	His 150	Ser	Phe	Ile	Ser	Asn 155	Ala	Val	Ala	Pro	Phe 160
Phe	Lys	Ser	Tyr	Ile 165	Arg	Glu	Ser	Gly	Lys 170	Ala	Asp	Arg	Asp	Gly 175	Asp
Lys	Met	Ala	Pro 180	Ser	Val	Glu	Lys	Lys 185	Ile	Ala	Glu	Leu	Glu 190	Met	Gly
Leu	Leu	His 195	Leu	Gln	Gln	Asn	Ile 200	Glu	Ile	Pro	Glu	Ile 205	Ser	Leu	Pro
Ile	His 210	Pro	Met	Ile	Thr	Asn 215	Val	Ala	Lys	Gln	Cys 220	Tyr	Glu	Arg	Gly
Glu 225	Lys	Pro	Lys	Val	Thr 230	Asp	Phe	Gly	Asp	Lys 235	Val	Glu	Asp	Pro	Thr 240
Phe	Leu	Asn	Gln	Leu 245	Gln	Ser	Gly	Val	Asn 250	Arg	Trp	Ile	Arg	Glu 255	Ile
Gln	Lys	Val	Thr 260	Lys	Leu	Asp	Arg	Asp 265	Pro	Ala	Ser	Gly	Thr 270	Ala	Leu
Gln	Glu	Ile 275	Ser	Phe	Trp	Leu	Asn 280	Leu	Glu	Arg	Ala	Leu 285	Tyr	Arg	Ile
Gln	Glu 290	Lys	Arg	Glu	Ser	Pro 295	Glu	Val	Leu	Leu	Thr 300	Leu	Asp	Ile	Leu
Lys 305	His	Gly	Lys	Arg	Phe 310	His	Ala	Thr	Val	Ser 315	Phe	Asp	Thr	Asp	Thr 320
Gly	Leu	Lys	Gln	Ala 325	Leu	Glu	Thr	Val	Asn 330	Asp	Tyr	Asn	Pro	Leu 335	Met
Lys	Asp	Phe	Pro 340	Leu	Asn	Asp	Leu	Leu 345	Ser	Ala	Thr	Glu	Leu 350	Asp	Lys

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Ile	Arg	Gln	Ala	Leu	Val	Ala	Ile	Phe	Thr	His	Leu	Arg	Lys	Ile	Arg
		355					360					365			
Asn	Thr	Lys	Tyr	Pro	Ile	Gln	Arg	Ala	Leu	Arg	Leu	Val	Glu	Ala	Ile
	370					375					380				
Ser	Arg	Asp	Leu	Ser	Ser	Gln	Leu	Leu	Lys	Val	Leu	Gly	Thr	Arg	Lys
385					390					395					400
Leu	Met	His	Val	Ala	Tyr	Glu	Glu	Phe	Glu	Lys	Val	Met	Val	Ala	Cys
				405					410					415	
Phe	Glu	Val	Phe	Gln	Thr	Trp	Asp	Asp	Glu	Tyr	Glu	Lys	Leu	Gln	Val
			420					425					430		
Leu	Leu	Arg	Asp	Ile	Val	Lys	Arg	Lys	Arg	Glu	Glu	Asn	Leu	Lys	Met
		435					440					445			
Val	Trp	Arg	Ile	Asn	Pro	Ala	His	Arg	Lys	Leu	Gln	Ala	Arg	Leu	Asp
	450					455					460				
Gln	Met	Arg	Lys	Phe	Arg	Arg	Gln	His	Glu	Gln	Leu	Arg	Ala	Val	Ile
465					470					475					480
Val	Arg	Val	Leu	Arg	Pro	Gln	Val	Thr	Ala	Val	Ala	Gln	Gln	Asn	Gln
				485					490					495	
Gly	Glu	Val	Pro	Glu	Pro	Gln	Asp	Met	Lys	Val	Ala	Glu	Val	Leu	Phe
			500					505					510		
Asp	Ala	Ala	Asp	Ala	Asn	Ala	Ile	Glu	Glu	Val	Asn	Leu	Ala	Tyr	Glu
		515					520					525			
Asn	Val	Lys	Glu	Val	Asp	Gly	Leu	Asp	Val	Ser	Lys	Glu	Gly	Thr	Glu
	530					535					540				
Ala	Trp	Glu	Ala	Ala	Met	Lys	Arg	Tyr	Asp	Glu	Arg	Ile	Asp	Arg	Val
545					550					555					560
Glu	Thr	Arg	Ile	Thr	Ala	Arg	Leu	Arg	Asp	Gln	Leu	Gly	Thr	Ala	Lys
				565					570					575	
Asn	Ala	Asn	Glu	Met	Phe	Arg	Ile	Phe	Ser	Arg	Phe	Asn	Ala	Leu	Phe
			580					585					590		
Val	Arg	Pro	His	Ile	Arg	Gly	Ala	Ile	Arg	Glu	Tyr	Gln	Thr	Gln	Leu
		595					600					605			
Ile	Gln	Arg	Val	Lys	Asp	Asp	Ile	Glu	Ser	Leu	His	Asp	Lys	Phe	Lys
	610					615					620				
Val	Gln	Tyr	Pro	Gln	Ser	Gln	Ala	Cys	Lys	Met	Ser	His	Val	Arg	Asp
625					630					635					640
Leu	Pro	Pro	Val	Ser	Gly	Ser	Ile	Ile	Trp	Ala	Lys	Gln	Ile	Asp	Arg
				645					650					655	
Gln	Leu	Thr	Ala	Tyr	Met	Lys	Arg	Val	Glu	Asp	Val	Leu	Gly	Lys	Gly
			660					665					670		
Trp	Glu	Asn	His	Val	Glu	Gly	Gln	Lys	Leu	Lys	Gln	Asp	Gly	Asp	Ser
		675					680					685			
Phe	Arg	Met	Lys	Leu	Asn	Thr	Gln	Glu	Ile	Phe	Asp	Asp	Trp	Ala	Arg
	690					695					700				
Lys	Val	Gln	Gln	Arg	Asn	Leu	Gly	Val	Ser	Gly	Arg	Ile	Phe	Thr	Ile
705					710					715					720
Glu	Ser	Thr	Arg	Val	Arg	Gly	Arg	Thr	Gly	Asn	Val	Leu	Lys	Leu	Lys
				725					730					735	
Val	Asn	Phe	Leu	Pro	Glu	Ile	Ile	Thr	Leu	Ser	Lys	Glu	Val	Arg	Asn
			740					745					750		
Leu	Lys	Trp	Leu	Gly	Phe	Arg	Val	Pro	Leu	Ala	Ile	Val	Asn	Lys	Ala
		755					760					765			
His	Gln	Ala	Asn	Gln	Leu	Tyr	Pro	Phe	Ala	Ile	Ser	Leu	Ile	Glu	Ser
	770					775					780				
Val	Arg	Thr	Tyr	Glu	Arg	Thr	Cys	Glu	Lys	Val	Glu	Glu	Arg	Asn	Thr
785					790					795					800
Ile	Ser	Leu	Leu	Val	Ala	Gly	Leu	Lys	Lys	Glu	Val	Gln	Ala	Leu	Ile
				805					810					815	
Ala	Glu	Gly	Ile	Ala	Leu	Val	Trp	Glu	Ser	Tyr	Lys	Leu	Asp	Pro	Tyr
			820					825					830		
Val	Gln	Arg	Leu	Ala	Glu	Thr	Val	Phe	Asn	Phe	Gln	Glu	Lys	Val	Asp
		835					840					845			
Asp	Leu	Leu	Ile	Ile	Glu	Glu	Lys	Ile	Asp	Leu	Glu	Val	Arg	Ser	Leu

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850					855					860				
Glu	Thr	Cys	Met	Tyr	Asp	His	Lys	Thr	Phe	Ser	Glu	Ile	Leu	Asn
865					870					875				880
Val	Gln	Lys	Ala	Val	Asp	Asp	Leu	Asn	Leu	His	Ser	Tyr	Ser	Asn
				885					890					895
Pro	Ile	Trp	Val	Asn	Lys	Leu	Asp	Met	Glu	Ile	Glu	Arg	Ile	Leu
			900					905					910	
Val	Arg	Leu	Gln	Ala	Gly	Leu	Arg	Ala	Trp	Thr	Gln	Val	Leu	Gly
		915					920					925		
Gln	Ala	Glu	Asp	Lys	Ala	Glu	Val	Asp	Met	Asp	Thr	Asp	Ala	Pro
	930					935					940			
Val	Ser	His	Lys	Pro	Gly	Gly	Glu	Pro	Lys	Ile	Lys	Asn	Val	Val
945					950					955				960
Glu	Leu	Arg	Ile	Thr	Asn	Gln	Val	Ile	Tyr	Leu	Asn	Pro	Pro	Ile
				965					970					975
Glu	Cys	Arg	Tyr	Lys	Leu	Tyr	Gln	Glu	Met	Phe	Ala	Trp	Lys	Met
			980					985					990	
Val	Leu	Ser	Leu	Pro	Arg	Ile	Gln	Ser	Gln	Arg	Tyr	Gln	Val	Gly
		995					1000					1005		
His	Tyr	Glu	Leu	Thr	Glu	Glu	Lys	Phe	Tyr	Arg	Asn	Ala	Leu	Thr
	1010				1015					1020				
Arg	Met	Pro	Asp	Gly	Pro	Val	Ala	Leu	Glu	Glu	Ser	Tyr	Ser	Ala
1025				1030					1035					1040
Met	Gly	Ile	Val	Ser	Glu	Val	Glu	Gln	Tyr	Val	Lys	Val	Trp	Leu
			1045						1050					1055
Tyr	Gln	Cys	Leu	Trp	Asp	Met	Gln	Ala	Glu	Asn	Ile	Tyr	Asn	Arg
			1060					1065					1070	
Gly	Glu	Asp	Leu	Asn	Lys	Trp	Gln	Ala	Leu	Leu	Val	Gln	Ile	Arg
		1075					1080					1085		
Ala	Arg	Gly	Thr	Phe	Asp	Asn	Ala	Glu	Thr	Lys	Lys	Glu	Phe	Gly
	1090				1095						1100			
Val	Val	Ile	Asp	Tyr	Gly	Lys	Val	Gln	Ser	Lys	Val	Asn	Leu	Lys
1105					1110					1115				1120
Asp	Ser	Trp	His	Lys	Glu	Val	Leu	Ser	Lys	Phe	Gly	Gln	Met	Leu
			1125						1130					1135
Ser	Asn	Met	Thr	Glu	Phe	His	Ser	Gln	Ile	Ser	Lys	Ser	Arg	Gln
			1140					1145					1150	
Leu	Glu	Gln	His	Ser	Val	Asp	Thr	Ala	Ser	Thr	Ser	Asp	Ala	Val
		1155					1160					1165		
Phe	Ile	Thr	Tyr	Val	Gln	Ser	Leu	Lys	Arg	Lys	Ile	Lys	Gln	Phe
	1170				1175						1180			
Lys	Gln	Val	Glu	Leu	Tyr	Arg	Asn	Gly	Gln	Arg	Leu	Leu	Glu	Lys
1185					1190					1195				1200
Arg	Phe	Gln	Phe	Pro	Pro	Ser	Trp	Leu	Tyr	Ile	Asp	Asn	Ile	Glu
			1205						1210					1215
Glu	Trp	Gly	Ala	Phe	Asn	Asp	Ile	Met	Arg	Arg	Lys	Asp	Ser	Ala
			1220					1225					1230	
Gln	Gln	Gln	Val	Ala	Asn	Leu	Gln	Met	Lys	Ile	Val	Gln	Glu	Asp
		1235					1240					1245		
Ala	Val	Glu	Ser	Arg	Thr	Thr	Asp	Leu	Leu	Thr	Asp	Trp	Glu	Lys
	1250					1255					1260			
Lys	Pro	Val	Thr	Gly	Asn	Leu	Arg	Pro	Glu	Glu	Ala	Leu	Gln	Ala
1265					1270				1275					1280
Thr	Ile	Tyr	Glu	Gly	Lys	Phe	Gly	Arg	Leu	Lys	Asp	Asp	Arg	Glu
			1285						1290					1295
Cys	Ala	Lys	Ala	Lys	Glu	Ala	Leu	Glu	Leu	Thr	Asp	Thr	Gly	Leu
			1300					1305					1310	
Ser	Gly	Ser	Glu	Glu	Arg	Val	Gln	Val	Ala	Leu	Glu	Glu	Leu	Gln
		1315					1320					1325		
Leu	Lys	Gly	Val	Trp	Ser	Glu	Leu	Ser	Lys	Val	Trp	Glu	Gln	Ile
	1330					1335					1340			
Gln	Met	Lys	Glu	Gln	Pro	Trp	Val	Ser	Val	Gln	Pro	Arg	Lys	Leu
1345					1350					1355				1360

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Gln Asn Leu Asp Ala Leu Leu Asn Gln Leu Lys Ser Phe Pro Ala Arg
 1365 1370 1375
 Leu Arg Gln Tyr Ala Ser Tyr Glu Phe Val Gln Arg Leu Leu Lys Gly
 1380 1385 1390
 Tyr Met Lys Ile Asn Met Leu Val Ile Glu Leu Lys Ser Glu Ala Leu
 1395 1400 1405
 Lys Asp Arg His Trp Lys Gln Leu Met Lys Arg Leu His Val Asn Trp
 1410 1415 1420
 Val Val Ser Glu Leu Thr Leu Gly Gln Ile Trp Asp Val Asp Leu Gln
 1425 1430 1435 1440
 Lys Asn Glu Ala Ile Val Lys Asp Val Leu Leu Val Ala Gln Gly Glu
 1445 1450 1455
 Met Ala Leu Glu Glu Phe Leu Lys Gln Ala Lys Val Trp Asn Thr Tyr
 1460 1465 1470
 Glu Leu Asp Leu Val Asn Tyr Gln Asn Lys Cys Arg Leu Ile Arg Gly
 1475 1480 1485
 Trp Asp Asp Leu Phe Asn Lys Val Lys Glu His Ile Asn Ser Val Ser
 1490 1495 1500
 Ala Met Lys Leu Ser Pro Tyr Tyr Lys Val Phe Glu Glu Asp Ala Leu
 1505 1510 1515 1520
 Ser Trp Glu Asp Lys Leu Asn Arg Ile Met Ala Leu Phe Asp Val Trp
 1525 1530 1535
 Ile Asp Val Gln Arg Arg Trp Val Tyr Leu Glu Gly Ile Phe Thr Gly
 1540 1545 1550
 Ser Ala Asp Ile Lys His Leu Leu Pro Val Glu Thr Gln Arg Phe Gln
 1555 1560 1565
 Ser Ile Ser Thr Glu Phe Leu Ala Leu Met Lys Lys Val Ser Lys Ser
 1570 1575 1580
 Pro Leu Val Met Asp Val Leu Asn Ile Gln Gly Val Gln Arg Ser Leu
 1585 1590 1595 1600
 Glu Arg Leu Ala Asp Leu Leu Gly Lys Ile Gln Lys Ala Leu Gly Glu
 1605 1610 1615
 Tyr Leu Glu Arg Glu Arg Ser Ser Phe Pro Arg Phe Tyr Phe Val Gly
 1620 1625 1630
 Asp Glu Asp Leu Leu Glu Ile Ile Gly Asn Ser Lys Asn Val Ala Lys
 1635 1640 1645
 Leu Gln Lys His Phe Lys Lys Met Phe Ala Gly Val Ser Ser Ile Ile
 1650 1655 1660
 Leu Asn Glu Asp Asn Ser Val Val Leu Gly Ile Ser Ser Arg Glu Gly
 1665 1670 1675 1680
 Glu Glu Val Met Phe Lys Thr Pro Val Ser Ile Thr Glu His Pro Lys
 1685 1690 1695
 Ile Asn Glu Trp Leu Thr Leu Val Glu Lys Glu Met Arg Val Thr Leu
 1700 1705 1710
 Ala Lys Leu Leu Ala Glu Ser Val Thr Glu Val Glu Ile Phe Gly Lys
 1715 1720 1725
 Ala Thr Ser Ile Asp Pro Asn Thr Tyr Ile Thr Trp Ile Asp Lys Tyr
 1730 1735 1740
 Gln Ala Gln Leu Val Val Leu Ser Ala Gln Ile Ala Trp Ser Glu Asn
 1745 1750 1755 1760
 Val Glu Thr Ala Leu Ser Ser Met Gly Gly Gly Gly Asp Ala Ala Pro
 1765 1770 1775
 Leu His Ser Val Leu Ser Asn Val Glu Val Thr Leu Asn Val Leu Ala
 1780 1785 1790
 Asp Ser Val Leu Met Glu Gln Pro Leu Arg Arg Arg Lys Leu Glu
 1795 1800 1805
 His Leu Ile Thr Glu Leu Val His Gln Arg Asp Val Thr Arg Ser Leu
 1810 1815 1820
 Ile Lys Ser Lys Ile Asp Asn Ala Lys Ser Phe Glu Trp Leu Ser Gln
 1825 1830 1835 1840
 Met Arg Phe Tyr Phe Asp Pro Lys Gln Thr Asp Val Leu Gln Gln Leu
 1845 1850 1855
 Ser Ile Gln Met Ala Asn Ala Lys Phe Asn Tyr Gly Phe Glu Tyr Leu

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		1860				1865			1870						
Gly	Val	Gln	Asp	Lys	Leu	Val	Gln	Thr	Pro	Leu	Thr	Asp	Arg	Cys	Tyr
		1875					1880					1885			
Leu	Thr	Met	Thr	Gln	Ala	Leu	Glu	Ala	Arg	Leu	Gly	Gly	Ser	Pro	Phe
		1890					1895					1900			
Gly	Pro	Ala	Gly	Thr	Gly	Lys	Thr	Glu	Ser	Val	Lys	Ala	Leu	Gly	His
1905					1910					1915					1920
Gln	Leu	Gly	Arg	Phe	Val	Leu	Val	Phe	Asn	Cys	Asp	Glu	Thr	Phe	Asp
			1925						1930					1935	
Phe	Gln	Ala	Met	Gly	Arg	Ile	Phe	Val	Gly	Leu	Cys	Gln	Val	Gly	Ala
		1940					1945						1950		
Trp	Gly	Cys	Phe	Asp	Glu	Phe	Asn	Arg	Leu	Glu	Glu	Arg	Met	Leu	Ser
		1955					1960					1965			
Ala	Val	Ser	Gln	Gln	Val	Gln	Cys	Ile	Gln	Glu	Ala	Leu	Arg	Glu	His
		1970				1975					1980				
Ser	Asn	Pro	Asn	Tyr	Asp	Lys	Thr	Ser	Ala	Pro	Ile	Thr	Cys	Glu	Leu
1985					1990					1995					2000
Leu	Asn	Lys	Gln	Val	Lys	Val	Ser	Pro	Asp	Met	Ala	Ile	Phe	Ile	Thr
			2005						2010					2015	
Met	Asn	Pro	Ala	Tyr	Ala	Gly	Arg	Ser	Asn	Leu	Pro	Asp	Asn	Leu	Lys
		2020						2025					2030		
Lys	Leu	Phe	Arg	Ser	Leu	Ala	Met	Thr	Lys	Pro	Asp	Arg	Gln	Leu	Ile
		2035					2040					2045			
Ala	Gln	Val	Met	Leu	Tyr	Ser	Gln	Gly	Phe	Arg	Thr	Ala	Glu	Val	Leu
		2050				2055					2060				
Ala	Asn	Lys	Ile	Val	Pro	Phe	Phe	Lys	Leu	Cys	Asp	Glu	Gln	Leu	Ser
2065					2070					2075					2080
Ser	Gln	Ser	His	Tyr	Asp	Phe	Gly	Leu	Arg	Ala	Leu	Lys	Ser	Val	Leu
			2085						2090					2095	
Val	Ser	Ala	Gly	Asn	Val	Lys	Arg	Glu	Arg	Ile	Gln	Lys	Ile	Lys	Arg
		2100						2105					2110		
Glu	Lys	Glu	Glu	Arg	Gly	Glu	Ala	Val	Asp	Glu	Gly	Glu	Ile	Ala	Glu
		2115					2120					2125			
Asn	Leu	Pro	Glu	Gln	Glu	Ile	Leu	Ile	Gln	Ser	Val	Cys	Glu	Thr	Met
		2130				2135					2140				
Val	Pro	Lys	Leu	Val	Ala	Glu	Asp	Ile	Pro	Leu	Leu	Phe	Ser	Leu	Leu
2145					2150					2155					2160
Ser	Asp	Val	Phe	Pro	Gly	Val	Gln	Tyr	His	Arg	Gly	Glu	Met	Thr	Ala
			2165						2170					2175	
Leu	Arg	Glu	Glu	Leu	Lys	Lys	Val	Cys	Gln	Glu	Met	Tyr	Leu	Thr	Tyr
		2180						2185					2190		
Gly	Asp	Gly	Glu	Glu	Val	Gly	Gly	Met	Trp	Val	Glu	Lys	Val	Leu	Gln
		2195					2200					2205			
Leu	Tyr	Gln	Ile	Thr	Gln	Ile	Asn	His	Gly	Leu	Met	Met	Val	Gly	Pro
		2210				2215					2220				
Ser	Gly	Ser	Gly	Lys	Ser	Met	Ala	Trp	Arg	Val	Leu	Leu	Lys	Ala	Leu
2225					2230					2235					2240
Glu	Arg	Leu	Glu	Gly	Val	Glu	Gly	Val	Ala	His	Ile	Ile	Asp	Pro	Lys
			2245						2250				2255		
Ala	Ile	Ser	Lys	Asp	His	Leu	Tyr	Gly	Thr	Leu	Asp	Pro	Asn	Thr	Arg
		2260						2265					2270		
Glu	Trp	Thr	Asp	Gly	Leu	Phe	Thr	His	Val	Leu	Arg	Lys	Ile	Ile	Asp
		2275					2280					2285			
Ser	Val	Arg	Gly	Glu	Leu	Gln	Lys	Arg	Gln	Trp	Ile	Val	Phe	Asp	Gly
		2290				2295					2300				
Asp	Val	Asp	Pro	Glu	Trp	Val	Glu	Asn	Leu	Asn	Ser	Val	Leu	Asp	Asp
2305					2310				2315						2320
Asn	Lys	Leu	Leu	Thr	Leu	Pro	Asn	Gly	Glu	Arg	Leu	Ser	Leu	Pro	Pro
			2325						2330					2335	
Asn	Val	Arg	Ile	Met	Phe	Glu	Val	Gln	Asp	Leu	Lys	Tyr	Ala	Thr	Leu
		2340						2345					2350		
Ala	Thr	Val	Ser	Arg	Cys	Gly	Met	Val	Trp	Phe	Ser	Glu	Asp	Val	Leu
		2355					2360					2365			

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Ser Thr Asp Met Ile Phe Asn Asn Phe Leu Ala Arg Leu Arg Ser Ile
 2370 2375 2380
 Pro Leu Asp Glu Gly Glu Asp Glu Ala Gln Arg Arg Arg Lys Gly Lys
 2385 2390 2395 2400
 Glu Asp Glu Gly Glu Glu Ala Ala Ser Pro Met Leu Gln Ile Gln Arg
 2405 2410 2415
 Asp Ala Ala Thr Ile Met Gln Pro Tyr Phe Thr Ser Asn Gly Leu Val
 2420 2425 2430
 Thr Lys Ala Leu Glu His Ala Phe Gln Leu Glu His Ile Met Asp Leu
 2435 2440 2445
 Thr Arg Leu Arg Cys Leu Gly Ser Leu Phe Ser Met Leu His Gln Ala
 2450 2455 2460
 Cys Arg Asn Val Ala Gln Tyr Asn Ala Asn His Pro Asp Phe Pro Met
 2465 2470 2475 2480
 Gln Ile Glu Gln Leu Glu Arg Tyr Ile Gln Arg Tyr Leu Val Tyr Ala
 2485 2490 2495
 Ile Leu Trp Ser Leu Ser Gly Asp Ser Arg Leu Lys Met Arg Ala Glu
 2500 2505 2510
 Leu Gly Glu Tyr Ile Arg Arg Ile Thr Thr Val Pro Leu Pro Thr Ala
 2515 2520 2525
 Pro Asn Ile Pro Ile Ile Asp Tyr Glu Val Ser Ile Ser Gly Glu Trp
 2530 2535 2540
 Ser Pro Trp Gln Ala Lys Val Pro Gln Ile Glu Val Glu Thr His Lys
 2545 2550 2555 2560
 Val Ala Ala Pro Asp Val Val Val Pro Thr Leu Asp Thr Val Arg His
 2565 2570 2575
 Glu Ala Leu Leu Tyr Thr Trp Leu Ala Glu His Lys Pro Leu Val Leu
 2580 2585 2590
 Cys Gly Pro Pro Gly Ser Gly Lys Thr Met Thr Leu Phe Ser Ala Leu
 2595 2600 2605
 Arg Ala Leu Pro Asp Met Glu Val Val Gly Leu Asn Phe Ser Ser Ala
 2610 2615 2620
 Thr Thr Pro Glu Leu Leu Leu Lys Thr Phe Asp His Tyr Cys Glu Tyr
 2625 2630 2635 2640
 Arg Arg Thr Pro Asn Gly Val Val Leu Ala Pro Val Gln Leu Gly Lys
 2645 2650 2655
 Trp Leu Val Leu Phe Cys Asp Glu Ile Asn Leu Pro Asp Met Asp Lys
 2660 2665 2670
 Tyr Gly Thr Gln Arg Val Ile Ser Phe Ile Arg Gln Met Val Glu His
 2675 2680 2685
 Gly Gly Phe Tyr Arg Thr Ser Asp Gln Thr Trp Val Lys Leu Glu Arg
 2690 2695 2700
 Ile Gln Phe Val Gly Ala Cys Asn Pro Pro Thr Asp Pro Gly Arg Lys
 2705 2710 2715 2720
 Pro Leu Ser His Arg Phe Leu Arg His Val Pro Val Val Tyr Val Asp
 2725 2730 2735
 Tyr Pro Gly Pro Ala Ser Leu Thr Gln Ile Tyr Gly Thr Phe Asn Arg
 2740 2745 2750
 Ala Met Leu Arg Leu Ile Pro Ser Leu Arg Thr Tyr Ala Glu Pro Leu
 2755 2760 2765
 Thr Ala Ala Met Val Glu Phe Tyr Thr Met Ser Gln Glu Arg Phe Thr
 2770 2775 2780
 Gln Asp Thr Gln Pro His Tyr Ile Tyr Ser Pro Arg Glu Met Thr Arg
 2785 2790 2795 2800
 Trp Val Arg Gly Ile Phe Glu Ala Leu Arg Pro Leu Glu Thr Leu Pro
 2805 2810 2815
 Val Glu Gly Leu Ile Arg Ile Trp Ala His Glu Ala Leu Arg Leu Phe
 2820 2825 2830
 Gln Asp Arg Leu Val Glu Asp Glu Glu Arg Arg Trp Thr Asp Glu Asn
 2835 2840 2845
 Ile Asp Thr Val Ala Leu Lys His Phe Pro Asn Ile Asp Arg Glu Lys
 2850 2855 2860
 Ala Met Ser Arg Pro Ile Leu Tyr Ser Asn Trp Leu Ser Lys Asp Tyr

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2865 2870 2875 2880
 Ile Pro Val Asp Gln Glu Glu Leu Arg Asp Tyr Val Lys Ala Arg Leu
 2885 2890 2895
 Lys Val Phe Tyr Glu Glu Glu Leu Asp Val Pro Leu Val Leu Phe Asn
 2900 2905 2910
 Glu Val Leu Asp His Val Leu Arg Ile Asp Arg Ile Phe Arg Gln Pro
 2915 2920 2925
 Gln Gly His Leu Leu Leu Ile Gly Val Ser Gly Ala Gly Lys Thr Thr
 2930 2935 2940
 Leu Ser Arg Phe Val Ala Trp Met Asn Gly Leu Ser Val Tyr Gln Ile
 2945 2950 2955 2960
 Lys Val His Arg Lys Tyr Thr Gly Glu Asp Phe Asp Glu Asp Leu Arg
 2965 2970 2975
 Thr Val Leu Arg Arg Ser Gly Cys Lys Asn Glu Lys Ile Ala Phe Ile
 2980 2985 2990
 Met Asp Glu Ser Asn Val Leu Asp Ser Gly Phe Leu Glu Arg Met Asn
 2995 3000 3005
 Thr Leu Leu Ala Asn Gly Glu Val Pro Gly Leu Phe Glu Gly Asp Glu
 3010 3015 3020
 Tyr Ala Thr Leu Met Thr Gln Cys Lys Glu Gly Ala Gln Lys Glu Gly
 3025 3030 3035 3040
 Leu Met Leu Asp Ser His Glu Glu Leu Tyr Lys Trp Phe Thr Ser Gln
 3045 3050 3055
 Val Ile Arg Asn Leu His Val Val Phe Thr Met Asn Pro Ser Ser Glu
 3060 3065 3070
 Gly Leu Lys Asp Arg Ala Ala Thr Ser Pro Ala Leu Phe Asn Arg Cys
 3075 3080 3085
 Val Leu Asn Trp Phe Gly Asp Trp Ser Thr Glu Ala Leu Tyr Gln Val
 3090 3095 3100
 Gly Lys Glu Phe Thr Ser Lys Met Asp Leu Glu Lys Pro Asn Tyr Ile
 3105 3110 3115 3120
 Val Pro Asp Tyr Met Pro Val Val Tyr Asp Lys Leu Pro Gln Pro Pro
 3125 3130 3135
 Ser His Arg Glu Ala Ile Val Asn Ser Cys Val Phe Val His Gln Thr
 3140 3145 3150
 Leu His Gln Ala Asn Ala Arg Leu Ala Lys Arg Gly Gly Arg Thr Met
 3155 3160 3165
 Ala Ile Thr Pro Arg His Tyr Leu Asp Phe Ile Asn His Tyr Ala Asn
 3170 3175 3180
 Leu Phe His Glu Lys Arg Ser Glu Leu Glu Glu Gln Gln Met His Leu
 3185 3190 3195 3200
 Asn Val Gly Leu Arg Lys Ile Lys Glu Thr Val Asp Gln Val Glu Glu
 3205 3210 3215
 Leu Arg Arg Asp Leu Arg Ile Lys Ser Gln Glu Leu Glu Val Lys Asn
 3220 3225 3230
 Ala Ala Ala Asn Asp Lys Leu Lys Lys Met Val Lys Asp Gln Gln Glu
 3235 3240 3245
 Ala Glu Lys Lys Lys Val Met Ser Gln Glu Ile Gln Glu Gln Leu His
 3250 3255 3260
 Lys Gln Gln Glu Val Ile Ala Asp Lys Gln Met Ser Val Lys Glu Asp
 3265 3270 3275 3280
 Leu Asp Lys Val Glu Pro Ala Val Ile Glu Ala Gln Asn Ala Val Lys
 3285 3290 3295
 Ser Ile Lys Lys Gln His Leu Val Glu Val Arg Ser Met Ala Asn Pro
 3300 3305 3310
 Pro Ala Ala Val Lys Leu Ala Leu Glu Ser Ile Cys Leu Leu Leu Gly
 3315 3320 3325
 Glu Ser Thr Thr Asp Trp Lys Gln Ile Arg Ser Ile Ile Met Arg Glu
 3330 3335 3340
 Asn Phe Ile Pro Thr Ile Val Asn Phe Ser Ala Glu Glu Ile Ser Asp
 3345 3350 3355 3360
 Ala Ile Arg Glu Lys Met Lys Lys Asn Tyr Met Ser Asn Pro Ser Tyr
 3365 3370 3375

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Asn Tyr Glu Ile Val Asn Arg Ala Ser Leu Ala Cys Gly Pro Met Val
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 Lys Trp Ala Ile Ala Gln Leu Asn Tyr Ala Asp Met Leu Lys Arg Val
 3395 3400 3405
 Glu Pro Leu Arg Asn Glu Leu Gln Lys Leu Glu Asp Asp Ala Lys Asp
 3410 3415 3420
 Asn Gln Gln Lys Ala Asn Glu Val Glu Gln Met Ile Arg Asp Leu Glu
 3425 3430 3435 3440
 Ala Ser Ile Ala Arg Tyr Lys Glu Glu Tyr Ala Val Leu Ile Ser Glu
 3445 3450 3455
 Ala Gln Ala Ile Lys Ala Asp Leu Ala Ala Val Glu Ala Lys Val Asn
 3460 3465 3470
 Arg Ser Thr Ala Leu Leu Lys Ser Leu Ser Ala Glu Arg Glu Arg Trp
 3475 3480 3485
 Glu Lys Thr Ser Glu Thr Phe Lys Asn Gln Met Ser Thr Ile Ala Gly
 3490 3495 3500
 Asp Cys Leu Leu Ser Ala Ala Phe Ile Ala Tyr Ala Gly Tyr Phe Asp
 3505 3510 3515 3520
 Gln Gln Met Arg Gln Asn Leu Phe Thr Thr Trp Ser His His Leu Gln
 3525 3530 3535
 Gln Ala Asn Ile Gln Phe Arg Thr Asp Ile Ala Arg Thr Glu Tyr Leu
 3540 3545 3550
 Ser Asn Ala Asp Glu Arg Leu Arg Trp Gln Ala Ser Ser Leu Pro Ala
 3555 3560 3565
 Asp Asp Leu Cys Thr Glu Asn Ala Ile Met Leu Lys Arg Phe Asn Arg
 3570 3575 3580
 Tyr Pro Leu Ile Ile Asp Pro Ser Gly Gln Ala Thr Glu Phe Ile Met
 3585 3590 3595 3600
 Asn Glu Tyr Lys Asp Arg Lys Ile Thr Arg Thr Ser Phe Leu Asp Asp
 3605 3610 3615
 Ala Phe Arg Lys Asn Leu Glu Ser Ala Leu Arg Phe Gly Asn Pro Leu
 3620 3625 3630
 Leu Val Gln Asp Val Glu Ser Tyr Asp Pro Val Leu Asn Pro Val Leu
 3635 3640 3645
 Asn Arg Glu Val Arg Arg Thr Gly Gly Arg Val Leu Ile Thr Leu Gly
 3650 3655 3660
 Asp Gln Asp Ile Asp Leu Ser Pro Ser Phe Val Ile Phe Leu Ser Thr
 3665 3670 3675 3680
 Arg Asp Pro Thr Val Glu Phe Pro Pro Asp Leu Cys Ser Arg Val Thr
 3685 3690 3695
 Phe Val Asn Phe Thr Val Thr Arg Ser Ser Leu Gln Ser Gln Cys Leu
 3700 3705 3710
 Asn Glu Val Leu Lys Ala Glu Arg Pro Asp Val Asp Glu Lys Arg Ser
 3715 3720 3725
 Asp Leu Leu Lys Leu Gln Gly Glu Phe Gln Leu Arg Leu Arg Gln Leu
 3730 3735 3740
 Glu Lys Ser Leu Leu Gln Ala Leu Asn Glu Val Lys Gly Arg Ile Leu
 3745 3750 3755 3760
 Asp Asp Asp Thr Ile Thr Thr Leu Glu Asn Leu Lys Arg Glu Ala
 3765 3770 3775
 Ala Glu Val Thr Arg Lys Val Glu Glu Thr Asp Ile Val Met Gln Glu
 3780 3785 3790
 Val Glu Thr Val Ser Gln Gln Tyr Leu Pro Leu Ser Thr Ala Cys Ser
 3795 3800 3805
 Ser Ile Tyr Phe Thr Met Glu Ser Leu Lys Gln Ile His Phe Leu Tyr
 3810 3815 3820
 Gln Tyr Ser Leu Gln Phe Phe Leu Asp Ile Tyr His Asn Val Leu Tyr
 3825 3830 3835 3840
 Glu Asn Pro Asn Leu Lys Gly Val Thr Asp His Thr Gln Arg Leu Ser
 3845 3850 3855
 Ile Ile Thr Lys Asp Leu Phe Gln Val Ala Phe Asn Arg Val Ala Arg
 3860 3865 3870
 Gly Met Leu His Gln Asp His Ile Thr Phe Ala Met Leu Leu Ala Arg

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Ile Lys 3875 Leu Lys Gly Thr Val 3880 Gly Glu Pro Thr Tyr 3885 Asp Ala Glu Phe
 3890 Gln His Phe Leu Arg Gly Asn Glu Ile Val Leu Ser Ala Gly Ser Thr
 3905 Pro Arg Ile Gln Gly Leu Thr Val Glu Gln Ala Glu Ala Val Val Arg
 3925 Leu Ser Cys Leu Pro Ala Phe Lys Asp Leu Ile Ala Lys Val Gln Ala
 3940 Asp Glu Gln Phe Gly Ile Trp Leu Asp Ser Ser Ser Pro Glu Gln Thr
 3955 Val Pro Tyr Leu Trp Ser Glu Glu Thr Pro Ala Thr Pro Ile Gly Gln
 3970 Ala Ile His Arg Leu Leu 3975 Ile Gln Ala Phe Arg Pro Asp Arg Leu
 3985 Leu Ala Met Ala His Met Phe Val Ser Thr Asn Leu Gly Glu Ser Phe
 4005 Met Ser Ile Met Glu Gln Pro Leu Asp Leu Thr His Ile Val Gly Thr
 4020 Glu Val Lys Pro Asn Thr Pro Val Leu Met Cys Ser Val Pro Gly Tyr
 4035 Asp Ala Ser Gly His Val Glu Asp Leu Ala Ala Glu Gln Asn Thr Gln
 4050 Ile Thr Ser Ile Ala Ile Gly Ser Ala Glu Gly Phe Asn Gln Ala Asp
 4065 Lys Ala Ile Asn Thr Ala Val Lys Ser Gly Arg Trp Val Met Leu Lys
 4085 Asn Val His Leu Ala Pro Gly Trp Leu Met Gln Leu Glu Lys Lys Leu
 4100 His Ser Leu Gln Pro His Ala Cys Phe Arg Leu Phe Leu Thr Met Glu
 4115 Ile Asn Pro Lys Val Pro Val Asn Leu Leu Arg Ala Gly Arg Ile Phe
 4130 Val Phe Glu Pro Pro Pro Gly Val Lys Ala Asn Met Leu Arg Thr Phe
 4145 Ser Ser Ile Pro Val Ser Arg Ile Cys Lys Ser Pro Asn Glu Arg Ala
 4165 Arg Leu Tyr Phe Leu Leu Ala Trp Phe His Ala Ile Ile Gln Glu Arg
 4180 Leu Arg Tyr Ala Pro Leu Gly Trp Ser Lys Lys Tyr Glu Phe Gly Glu
 4195 Ser Asp Leu Arg Ser Ala Cys Asp Thr Val Asp Thr Trp Leu Asp Asp
 4210 Thr Ala Lys Ala Ser Gly Arg Gln Asn Ile Ser Pro Asp Lys Ile Pro
 4225 Trp Ser Ala Leu Lys Thr Leu Met Ala Gln Ser Ile Tyr Gly Gly Arg
 4245 Val Asp Asn Glu Phe Asp Gln Arg Leu Leu Asn Thr Phe Leu Glu Arg
 4260 Leu Phe Thr Thr Arg Ser Phe Asp Ser Glu Phe Lys Leu Ala Cys Lys
 4275 Val Asp Gly His Lys Asp Ile Gln Met Pro Asp Gly Ile Arg Arg Glu
 4290 Glu Phe Val Gln Trp Val Glu Leu Leu Pro Asp Thr Gln Thr Pro Ser
 4305 Trp Leu Gly Leu Pro Asn Asn Ala Glu Arg Val Leu Leu Thr Thr Gln
 4325 Gly Val Asp Met Ile Ser Lys Met Leu Lys Met Gln Met Leu Glu Asp
 4340 Glu Asp Asp Leu Ala Tyr Ala Glu Thr Glu Lys Lys Thr Arg Thr Asp
 4355 Ser Thr Ser Asp Gly Arg Pro Ala Trp Met Arg Thr Leu His Thr Thr
 4370 4375 4380

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Ala Ser Asn Trp Leu His Leu Ile Pro Gln Thr Leu Ser His Leu Lys
 4385 4390 4395 4400
 Arg Thr Val Glu Asn Ile Lys Asp Pro Leu Phe Arg Phe Phe Glu Arg
 4405 4410 4415
 Glu Val Lys Met Gly Ala Lys Leu Leu Gln Asp Val Arg Gln Asp Leu
 4420 4425 4430
 Ala Asp Val Val Gln Val Cys Glu Gly Lys Lys Lys Gln Thr Asn Tyr
 4435 4440 4445
 Leu Arg Thr Leu Ile Asn Glu Leu Val Lys Gly Ile Leu Pro Arg Ser
 4450 4455 4460
 Trp Ser His Tyr Thr Val Pro Ala Gly Met Thr Val Ile Gln Trp Val
 4465 4470 4475 4480
 Ser Asp Phe Ser Glu Arg Ile Lys Gln Leu Gln Asn Ile Ser Leu Ala
 4485 4490 4495
 Ala Ala Ser Gly Gly Ala Lys Glu Leu Lys Asn Ile His Val Cys Leu
 4500 4505 4510
 Gly Gly Leu Phe Val Pro Glu Ala Tyr Ile Thr Ala Thr Arg Gln Tyr
 4515 4520 4525
 Val Ala Gln Ala Asn Ser Trp Ser Leu Glu Glu Leu Cys Leu Glu Val
 4530 4535 4540
 Asn Val Thr Thr Ser Gln Gly Ala Thr Leu Asp Ala Cys Ser Phe Gly
 4545 4550 4555 4560
 Val Thr Gly Leu Lys Leu Gln Gly Ala Thr Cys Asn Asn Asn Lys Leu
 4565 4570 4575
 Ser Leu Ser Asn Ala Ile Ser Thr Ala Leu Pro Leu Thr Gln Leu Arg
 4580 4585 4590
 Trp Val Lys Gln Thr Asn Thr Glu Lys Lys Ala Ser Val Val Thr Leu
 4595 4600 4605
 Pro Val Tyr Leu Asn Phe Thr Arg Ala Asp Leu Ile Phe Thr Val Asp
 4610 4615 4620
 Phe Glu Ile Ala Thr Lys Glu Asp Pro Arg Ser Phe Tyr Glu Arg Gly
 4625 4630 4635 4640
 Val Ala Val Leu Cys Thr Glu
 4645

<210> 41

<211> 1232

<212> PRT

<213> Homo sapiens

<400> 41

Met Ala Asn Gly Val Ile Pro Pro Pro Gly Gly Ala Ser Pro Leu Pro
 1 5 10 15
 Gln Val Arg Val Pro Leu Glu Glu Pro Pro Leu Ser Pro Asp Val Glu
 20 25 30
 Glu Glu Asp Asp Asp Leu Gly Lys Thr Leu Ala Val Ser Arg Phe Gly
 35 40 45
 Asp Leu Ile Ser Lys Pro Pro Ala Trp Asp Pro Glu Lys Pro Ser Arg
 50 55 60
 Ser Tyr Ser Glu Arg Asp Phe Glu Phe His Arg His Thr Ser His His
 65 70 75 80
 Thr His His Pro Leu Ser Ala Arg Leu Pro Pro Pro His Lys Leu Arg
 85 90 95
 Arg Leu Pro Pro Thr Ser Ala Arg His Thr Arg Arg Lys Arg Lys Lys
 100 105 110
 Glu Lys Thr Ser Ala Pro Pro Ser Glu Gly Thr Pro Pro Ile Gln Glu
 115 120 125
 Glu Gly Gly Ala Gly Val Asp Glu Glu Glu Glu Glu Glu Glu Glu
 130 135 140
 Glu Gly Glu Ser Glu Ala Glu Pro Val Glu Pro His Ser Gly Thr
 145 150 155 160
 Pro Gln Lys Ala Lys Phe Ser Ile Gly Ser Asp Glu Asp Asp Ser Pro
 165 170 175

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Gly	Leu	Pro	Gly	Arg	Ala	Ala	Val	Thr	Lys	Pro	Leu	Pro	Ser	Val	Gly
Pro	His	Thr	Asp	Lys	Ser	Pro	Gln	His	Ser	Ser	Ser	Ser	Pro	Ser	Pro
Arg	Ala	Arg	Ala	Ser	Arg	Leu	Ala	Gly	Glu	Lys	Ser	Arg	Pro	Trp	Ser
Pro	Ser	Ala	Ser	Tyr	Asp	Leu	Arg	Glu	Arg	Leu	Cys	Pro	Gly	Ser	Ala
Leu	Gly	Asn	Pro	Gly	Gly	Pro	Glu	Gln	Gln	Val	Pro	Thr	Asp	Glu	Ala
Glu	Ala	Gln	Met	Leu	Gly	Ser	Ala	Asp	Leu	Asp	Asp	Met	Lys	Ser	His
Arg	Leu	Glu	Asp	Asn	Pro	Gly	Val	Arg	Arg	His	Leu	Val	Lys	Lys	Pro
Ser	Arg	Thr	Gln	Gly	Gly	Arg	Gly	Ser	Pro	Ser	Gly	Leu	Ala	Pro	Ile
Leu	Arg	Arg	Lys	Lys	Lys	Lys	Lys	Lys	Leu	Asp	Arg	Arg	Pro	His	Glu
Val	Phe	Val	Glu	Leu	Asn	Glu	Leu	Met	Leu	Asp	Arg	Ser	Gln	Glu	Pro
His	Trp	Arg	Glu	Thr	Ala	Arg	Trp	Ile	Lys	Phe	Glu	Glu	Asp	Val	Glu
Glu	Glu	Thr	Glu	Arg	Trp	Gly	Lys	Pro	His	Val	Ala	Ser	Leu	Ser	Phe
Arg	Ser	Leu	Leu	Glu	Leu	Arg	Arg	Thr	Ile	Ala	His	Gly	Ala	Ala	Leu
Leu	Asp	Leu	Glu	Gln	Thr	Thr	Leu	Pro	Gly	Ile	Ala	His	Leu	Val	Val
Glu	Thr	Met	Ile	Val	Ser	Asp	Gln	Ile	Arg	Pro	Glu	Asp	Arg	Ala	Ser
Val	Leu	Arg	Thr	Leu	Leu	Leu	Lys	His	Ser	His	Pro	Asn	Asp	Asp	Lys
Asp	Ser	Gly	Phe	Phe	Pro	Arg	Asn	Pro	Ser	Ser	Ser	Ser	Met	Asn	Ser
Val	Leu	Gly	Asn	His	His	Pro	Thr	Pro	Ser	His	Gly	Pro	Asp	Gly	Ala
Val	Pro	Thr	Met	Ala	Asp	Leu	Gly	Glu	Pro	Ala	Pro	Leu	Trp	Pro	Pro
His	Asp	Pro	Asp	Ala	Lys	Glu	Lys	Pro	Leu	His	Met	Pro	Gly	Gly	Asp
Gly	His	Arg	Gly	Lys	Ser	Leu	Lys	Leu	Glu	Lys	Ile	Pro	Glu	Asp	Asp
Ala	Glu	Ala	Thr	Val	Val	Leu	Val	Gly	Cys	Val	Pro	Phe	Leu	Glu	Gln
Pro	Ala	Ala	Ala	Phe	Val	Arg	Leu	Asn	Glu	Ala	Val	Leu	Leu	Glu	Ser
Val	Leu	Glu	Val	Pro	Val	Pro	Val	Arg	Phe	Leu	Phe	Val	Met	Leu	Gly
Pro	Ser	His	Thr	Ser	Thr	Asp	Tyr	His	Glu	Leu	Gly	Arg	Ser	Ile	Ala
Thr	Leu	Met	Ser	Asp	Lys	Leu	Phe	His	Glu	Ala	Ala	Tyr	Gln	Ala	Asp
Asp	Arg	Gln	Asp	Leu	Leu	Ser	Ala	Ile	Ser	Glu	Phe	Leu	Asp	Gly	Ser
Ile	Val	Ile	Pro	Pro	Ser	Glu	Val	Glu	Gly	Arg	Asp	Leu	Leu	Arg	Ser
Val	Ala	Ala	Phe	Gln	Arg	Glu	Leu	Leu	Arg	Lys	Arg	Arg	Glu	Arg	Glu
Gln	Thr	Lys	Val	Glu	Met	Thr	Thr	Arg	Gly	Gly	Tyr	Thr	Ala	Pro	Gly
Lys	Glu	Leu	Ser	Leu	Glu	Leu	Gly	Gly	Ser	Glu	Ala	Thr	Pro	Glu	Asp
Asp	Pro	Leu	Leu	Arg	Thr	Gly	Ser	Val	Phe	Gly	Gly	Leu	Val	Arg	Asp

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Val	Arg	675	Arg	Tyr	Pro	His	680	Tyr	Pro	Ser	Asp	Leu	685	Arg	Asp	Ala	Leu
His	Ser	690	Gln	Cys	Val	Ala	695	Ala	Val	Leu	Phe	Ile	700	Tyr	Phe	Ala	Ala
705	Ser	Pro	Ala	Ile	Thr	Phe	710	Gly	Gly	Leu	Leu	Gly	715	Glu	Lys	Thr	Glu
				725							730					735	Gly
Leu	Met	Gly	Val	740	Ser	Glu	Leu	Ile	Val	745	Ser	Thr	Ala	Val	Leu	750	Gly
Leu	Phe	Ser	Leu	Leu	Gly	Ala	Gln	Pro	Leu	Leu	Val	Val	765	Gly	Phe	Ser	
		755					760										
Gly	Pro	Leu	Leu	Val	Phe	Glu	Glu	Ala	Phe	Phe	Lys	Phe	780	Cys	Arg	Ala	
		770					775										
Gln	Asp	Leu	Glu	Tyr	Leu	Thr	Gly	Arg	Val	Trp	Val	Gly	Leu	Trp	Leu	800	
785	Val	Val	Phe	Val	Leu	Ala	Leu	Val	Ala	Ala	Glu	Gly	Ser	Phe	Leu	Val	
				805						810						815	
Arg	Tyr	Ile	Ser	Pro	Phe	Thr	Gln	Glu	Ile	Phe	Ala	Phe	Leu	Ile	Ser		
			820						825								
Leu	Ile	Phe	Ile	Tyr	Glu	Thr	Phe	Tyr	Lys	Leu	Tyr	Lys	845	Val	Phe	Thr	
		835					840										
Glu	His	Pro	Leu	Leu	Pro	Phe	Tyr	Pro	Pro	Glu	Gly	Ala	Leu	Glu	Gly		
		850					855					860					
Ser	Leu	Asp	Ala	Gly	Leu	Glu	Pro	Asn	Gly	Ser	Ala	Leu	Pro	Pro	Thr	880	
865	Glu	Gly	Pro	Pro	Ser	Pro	Arg	Asn	Gln	Pro	Asn	Thr	Ala	Leu	Leu	Ser	
				885						890					895		
Leu	Ile	Leu	Met	Leu	Gly	Thr	Phe	Phe	Ile	Ala	Phe	Phe	Leu	Arg	Lys		
			900						905						910		
Phe	Arg	Asn	Ser	Arg	Phe	Leu	Gly	Gly	Lys	Ala	Arg	Arg	Ile	Ile	Gly		
		915					920										
Asp	Phe	Gly	Ile	Pro	Ile	Ser	Ile	Leu	Val	Met	Val	Leu	Val	Asp	Tyr		
		930					935										
Ser	Ile	Thr	Asp	Thr	Tyr	Thr	Gln	Lys	Leu	Thr	Val	Pro	Thr	Gly	Leu		
945					950						955				960		
Ser	Val	Thr	Ser	Pro	Asp	Lys	Arg	Ser	Trp	Phe	Ile	Pro	Pro	Leu	Gly		
				965					970						975		
Ser	Ala	Arg	Pro	Phe	Pro	Pro	Trp	Met	Val	Ala	Ala	Ala	Val	Pro			
			980					985					990				
Ala	Leu	Leu	Val	Leu	Ile	Leu	Ile	Phe	Met	Glu	Thr	Gln	Ile	Thr	Ala		
		995					1000						1005				
Leu	Ile	Val	Ser	Gln	Lys	Ala	Arg	Arg	Leu	Leu	Lys	Gly	Ser	Gly	Phe		
		1010					1015					1020					
His	Leu	Asp	Leu	Leu	Leu	Ile	Gly	Ser	Leu	Gly	Gly	Leu	Cys	Gly	Leu		
1025					1030						1035					1040	
Phe	Gly	Leu	Pro	Trp	Leu	Thr	Ala	Ala	Thr	Val	Arg	Ser	Val	Thr	His		
				1045							1050				1055		
Val	Asn	Ala	Leu	Thr	Val	Met	Arg	Thr	Ala	Ile	Ala	Pro	Gly	Asp	Lys		
				1060					1065					1070			
Pro	Gln	Ile	Gln	Glu	Val	Arg	Glu	Gln	Arg	Val	Thr	Gly	Val	Leu	Ile		
		1075					1080						1085				
Ala	Ser	Leu	Val	Gly	Leu	Ser	Ile	Val	Met	Gly	Ala	Val	Leu	Arg	Arg		
		1090					1095					1100					
Ile	Pro	Leu	Ala	Val	Leu	Phe	Gly	Ile	Phe	Leu	Tyr	Met	Gly	Val	Thr		
1105					1110						1115				1120		
Ser	Leu	Ser	Gly	Ile	Gln	Leu	Ser	Gln	Arg	Leu	Leu	Leu	Ile	Leu	Met		
				1125					1130					1135			
Pro	Ala	Lys	His	His	Pro	Glu	Gln	Pro	Tyr	Val	Thr	Lys	Val	Lys	Thr		
			1140						1145					1150			
Trp	Arg	Met	His	Leu	Phe	Thr	Cys	Ile	Gln	Leu	Gly	Cys	Ile	Ala	Leu		
		1155					1160					1165					
Leu	Trp	Val	Val	Lys	Ser	Thr	Ala	Ala	Ser	Leu	Ala	Phe	Pro	Phe	Leu		
		1170				1175					1180						

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Leu Leu Leu Thr Val Pro Leu Arg His Cys Leu Leu Pro Arg Leu Phe
 1185 1190 1195 1200
 Gln Asp Arg Glu Leu Gln Ala Leu Asp Ser Glu Asp Ala Glu Pro Asn
 1205 1210 1215
 Phe Asp Glu Asp Gly Gln Asp Glu Tyr Asn Glu Leu His Met Pro Val
 1220 1225 1230

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 <211> 1515
 <212> PRT
 <213> Homo sapiens

<400> 42
 Asp Trp Asn Val Thr Trp Asn Thr Ser Asn Pro Asp Phe Thr Lys Cys
 1 5 10 15
 Phe Gln Asn Thr Val Leu Val Trp Val Pro Cys Phe Tyr Leu Trp Ala
 20 25 30
 Cys Phe Pro Phe Tyr Phe Leu Tyr Leu Ser Arg His Asp Arg Gly Tyr
 35 40 45
 Ile Gln Met Thr Pro Leu Asn Lys Thr Lys Thr Ala Leu Gly Phe Leu
 50 55 60
 Leu Trp Ile Val Cys Trp Ala Asp Leu Phe Tyr Ser Phe Trp Glu Arg
 65 70 75 80
 Ser Arg Gly Ile Phe Leu Ala Pro Val Phe Leu Val Ser Pro Thr Leu
 85 90 95
 Leu Gly Ile Thr Met Leu Leu Ala Thr Phe Leu Ile Gln Leu Glu Arg
 100 105 110
 Arg Lys Gly Val Gln Ser Ser Gly Ile Met Leu Thr Phe Trp Leu Val
 115 120 125
 Ala Leu Val Cys Ala Leu Ala Ile Leu Arg Ser Lys Ile Met Thr Ala
 130 135 140
 Leu Lys Glu Asp Ala Gln Val Asp Leu Phe Arg Asp Ile Thr Phe Tyr
 145 150 155 160
 Val Tyr Phe Ser Leu Leu Leu Ile Gln Leu Val Leu Ser Cys Phe Ser
 165 170 175
 Asp Arg Ser Pro Leu Phe Ser Glu Thr Ile His Asp Pro Asn Pro Cys
 180 185 190
 Pro Glu Ser Ser Ala Ser Phe Leu Ser Arg Ile Thr Phe Trp Trp Ile
 195 200 205
 Thr Gly Leu Ile Val Arg Gly Tyr Arg Gln Pro Leu Glu Gly Ser Asp
 210 215 220
 Leu Trp Ser Leu Asn Lys Glu Asp Thr Ser Glu Gln Val Val Pro Val
 225 230 235 240
 Leu Val Lys Asn Trp Lys Lys Glu Cys Ala Lys Thr Arg Lys Gln Pro
 245 250 255
 Val Lys Val Val Tyr Ser Ser Lys Asp Pro Ala Gln Pro Lys Glu Ser
 260 265 270
 Ser Lys Val Asp Ala Asn Glu Glu Val Glu Ala Leu Ile Val Lys Ser
 275 280 285
 Pro Gln Lys Glu Trp Asn Pro Ser Leu Phe Lys Val Leu Tyr Lys Thr
 290 295 300
 Phe Gly Pro Tyr Phe Leu Met Ser Phe Phe Phe Lys Ala Ile His Asp
 305 310 315 320
 Leu Met Met Phe Ser Gly Pro Gln Ile Leu Lys Leu Leu Ile Lys Phe
 325 330 335
 Val Asn Asp Thr Lys Ala Pro Asp Trp Gln Gly Tyr Phe Tyr Thr Val
 340 345 350
 Leu Leu Phe Val Thr Ala Cys Leu Gln Thr Leu Val Leu His Gln Tyr
 355 360 365
 Phe His Ile Cys Phe Val Ser Gly Met Arg Ile Lys Thr Ala Val Ile
 370 375 380
 Gly Ala Val Tyr Arg Lys Ala Leu Val Ile Thr Asn Ser Ala Arg Lys
 385 390 395 400

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Ser	Ser	Thr	Val	Gly	Glu	Ile	Val	Asn	Leu	Met	Ser	Val	Asp	Ala	Gln
				405					410					415	
Arg	Phe	Met	Asp	Leu	Ala	Thr	Tyr	Ile	Asn	Met	Ile	Trp	Ser	Ala	Pro
			420					425					430		
Leu	Gln	Val	Ile	Leu	Ala	Leu	Tyr	Leu	Leu	Trp	Leu	Asn	Leu	Gly	Pro
		435					440					445			
Ser	Val	Leu	Ala	Gly	Val	Ala	Val	Met	Val	Leu	Met	Val	Pro	Val	Asn
	450					455					460				
Ala	Val	Met	Ala	Met	Lys	Thr	Lys	Thr	Tyr	Gln	Val	Ala	His	Met	Lys
465					470					475					480
Ser	Lys	Asp	Asn	Arg	Ile	Lys	Leu	Met	Asn	Glu	Ile	Leu	Asn	Gly	Ile
			485						490					495	
Lys	Val	Leu	Lys	Leu	Tyr	Ala	Trp	Glu	Leu	Ala	Phe	Lys	Asp	Lys	Val
			500					505					510		
Leu	Ala	Ile	Arg	Gln	Glu	Glu	Leu	Lys	Val	Leu	Lys	Lys	Ser	Ala	Tyr
		515					520					525			
Leu	Ser	Ala	Val	Gly	Thr	Phe	Thr	Trp	Val	Cys	Thr	Pro	Phe	Leu	Val
	530					535					540				
Ala	Leu	Cys	Thr	Phe	Ala	Val	Tyr	Val	Thr	Ile	Asp	Glu	Asn	Asn	Ile
545					550					555					560
Leu	Asp	Ala	Gln	Thr	Ala	Phe	Val	Ser	Leu	Ala	Leu	Phe	Asn	Ile	Leu
				565					570					575	
Arg	Phe	Pro	Leu	Asn	Ile	Leu	Pro	Met	Val	Ile	Ser	Ser	Ile	Val	Gln
			580					585					590		
Ala	Ser	Val	Ser	Leu	Lys	Arg	Leu	Arg	Ile	Phe	Leu	Ser	His	Glu	Glu
		595					600					605			
Leu	Glu	Pro	Asp	Ser	Ile	Glu	Arg	Arg	Pro	Val	Lys	Asp	Gly	Gly	Gly
	610					615					620				
Thr	Asn	Ser	Ile	Thr	Val	Arg	Asn	Ala	Thr	Phe	Thr	Trp	Ala	Arg	Ser
625					630					635					640
Asp	Pro	Pro	Thr	Leu	Asn	Gly	Ile	Thr	Phe	Ser	Ile	Pro	Glu	Gly	Ala
				645					650					655	
Leu	Val	Ala	Val	Val	Gly	Gln	Val	Gly	Cys	Gly	Lys	Ser	Ser	Leu	Leu
			660					665					670		
Ser	Ala	Leu	Leu	Ala	Glu	Met	Asp	Lys	Val	Glu	Gly	His	Val	Ala	Ile
		675					680					685			
Lys	Gly	Ser	Val	Ala	Tyr	Val	Pro	Gln	Gln	Ala	Trp	Ile	Gln	Asn	Asp
	690					695					700				
Ser	Leu	Arg	Glu	Asn	Ile	Leu	Phe	Gly	Cys	Gln	Leu	Glu	Glu	Pro	Tyr
705					710					715					720
Tyr	Arg	Ser	Val	Ile	Gln	Ala	Cys	Ala	Leu	Leu	Pro	Asp	Leu	Glu	Ile
				725					730					735	
Leu	Pro	Ser	Gly	Asp	Arg	Thr	Glu	Ile	Gly	Glu	Lys	Gly	Val	Asn	Leu
			740					745					750		
Ser	Gly	Gly	Gln	Lys	Gln	Arg	Val	Ser	Leu	Ala	Arg	Ala	Val	Tyr	Ser
		755					760					765			
Asn	Ala	Asp	Ile	Tyr	Leu	Phe	Asp	Asp	Pro	Leu	Ser	Ala	Val	Asp	Ala
	770					775					780				
His	Val	Gly	Lys	His	Ile	Phe	Glu	Asn	Val	Ile	Gly	Pro	Lys	Gly	Met
785					790					795					800
Leu	Lys	Asn	Lys	Thr	Arg	Ile	Leu	Val	Thr	His	Ser	Met	Ser	Tyr	Leu
				805					810					815	
Pro	Gln	Val	Asp	Val	Ile	Ile	Val	Met	Ser	Gly	Gly	Lys	Ile	Ser	Glu
			820					825					830		
Met	Gly	Ser	Tyr	Gln	Glu	Leu	Leu	Ala	Arg	Asp	Gly	Ala	Phe	Ala	Glu
		835					840					845			
Phe	Leu	Arg	Thr	Tyr	Ala	Ser	Thr	Glu	Gln	Glu	Gln	Asp	Ala	Glu	Glu
	850					855						860			
Asn	Gly	Val	Thr	Gly	Val	Ser	Gly	Pro	Gly	Lys	Glu	Ala	Lys	Gln	Met
865					870					875					880
Glu	Asn	Gly	Met	Leu	Val	Thr	Asp	Ser	Ala	Gly	Lys	Gln	Leu	Gln	Arg
				885					890					895	
Gln	Leu	Ser	Ser	Ser	Ser	Ser	Tyr	Ser	Gly	Asp	Ile	Ser	Arg	His	His

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Asn	Ser	Thr	900	Ala	Glu	Leu	Gln	Lys	905	Ala	Glu	Ala	Lys	Lys	910	Glu	Glu	Thr
Trp	Lys	Leu	915	Met	Glu	Ala	Asp	Lys	920	Ala	Gln	Thr	Gly	Gln	925	Val	Lys	Leu
Ser	Val	Tyr	930	Trp	Asp	Tyr	Met	Lys	935	Ala	Ile	Gly	Leu	Phe	940	Ile	Ser	Phe
Leu	Ser	Ile	945	Phe	Leu	Phe	Met	Cys	950	Asn	His	Val	Ser	Ala	955	Leu	Ala	Ser
Asn	Tyr	Trp	965	Leu	Ser	Leu	Trp	Thr	970	Asp	Asp	Pro	Ile	Val	975	Asn	Gly	Thr
Gln	Glu	His	980	Thr	Lys	Val	Arg	Leu	985	Ser	Val	Tyr	Gly	Ala	990	Leu	Gly	Ile
Ser	Gln	Gly	995	Ile	Ala	Val	Phe	Gly	1000	Tyr	Ser	Met	Ala	Val	1005	Ser	Ile	Gly
Gly	Ile	Leu	1010	Ala	Ser	Arg	Cys	Leu	1015	His	Val	Asp	Leu	Leu	1020	His	Ser	Ile
Leu	Arg	Ser	1025	Pro	Met	Ser	Phe	Phe	1030	Glu	Arg	Thr	Pro	Ser	1035	Gly	Asn	Leu
Val	Asn	Arg	1045	Phe	Ser	Lys	Glu	Leu	1050	Asp	Thr	Val	Asp	Ser	1055	Met	Ile	Pro
Glu	Val	Ile	1060	Lys	Met	Phe	Met	Gly	1065	Ser	Leu	Phe	Asn	Val	1070	Ile	Gly	Ala
Cys	Ile	Val	1075	Ile	Leu	Leu	Ala	Thr	1080	Pro	Ile	Ala	Ala	Ile	1085	Ile	Ile	Pro
Pro	Leu	Gly	1090	Leu	Ile	Tyr	Phe	Phe	1095	Val	Gln	Arg	Phe	Tyr	1100	Val	Ala	Ser
Ser	Arg	Gln	1105	Leu	Lys	Arg	Leu	Glu	1110	Ser	Val	Ser	Arg	Ser	1115	Pro	Val	Tyr
Ser	His	Phe	1125	Asn	Glu	Thr	Leu	Leu	1130	Gly	Val	Ser	Val	Ile	1135	Arg	Ala	Phe
Glu	Glu	Gln	1140	Glu	Arg	Phe	Ile	His	1145	Gln	Ser	Asp	Leu	Lys	1150	Val	Asp	Glu
Asn	Gln	Lys	1155	Ala	Tyr	Tyr	Pro	Ser	1160	Ile	Val	Ala	Asn	Arg	1165	Trp	Leu	Ala
Val	Arg	Leu	1170	Glu	Cys	Val	Gly	Asn	1175	Cys	Ile	Val	Leu	Phe	1180	Ala	Ala	Leu
Phe	Ala	Val	1185	Ile	Ser	Arg	His	Ser	1190	Leu	Ser	Ala	Gly	Leu	1195	Val	Gly	Leu
Ser	Val	Ser	1205	Tyr	Ser	Leu	Gln	Val	1210	Thr	Thr	Tyr	Leu	Asn	1215	Trp	Leu	Val
Arg	Met	Ser	1220	Ser	Glu	Met	Glu	Thr	1225	Asn	Ile	Val	Ala	Val	1230	Glu	Arg	Leu
Lys	Glu	Tyr	1235	Ser	Glu	Thr	Glu	Lys	1240	Glu	Ala	Pro	Trp	Gln	1245	Ile	Gln	Glu
Thr	Ala	Pro	1250	Pro	Ser	Ser	Trp	Pro	1255	Gln	Val	Gly	Arg	Val	1260	Glu	Phe	Arg
Asn	Tyr	Cys	1265	Leu	Arg	Tyr	Arg	Glu	1270	Asp	Leu	Asp	Phe	Val	1275	Leu	Arg	His
Ile	Asn	Val	1285	Thr	Ile	Asn	Gly	Gly	1290	Glu	Lys	Val	Gly	Ile	1295	Val	Gly	Arg
Thr	Gly	Ala	1300	Gly	Lys	Ser	Ser	Leu	1305	Thr	Leu	Gly	Leu	Phe	1310	Arg	Ile	Asn
Glu	Ser	Ala	1315	Glu	Gly	Glu	Ile	Ile	1320	Ile	Ile	Asp	Gly	Ile	1325	Asn	Ile	Ala
Ile	Gly	Leu	1330	His	Asp	Leu	Arg	Phe	1335	Lys	Ile	Thr	Ile	Ile	1340	Pro	Gln	Asp
Pro	Val	Leu	1345	Phe	Ser	Gly	Ser	Leu	1350	Arg	Met	Asn	Leu	Asp	1355	Pro	Phe	Ser
Gln	Tyr	Ser	1365	Asp	Glu	Glu	Val	Trp	1370	Thr	Ser	Leu	Glu	Leu	1375	Ala	His	Leu
Lys	Asp	Phe	1380	Val	Ser	Ala	Leu	Pro	1385	Asp	Lys	Leu	Asp	His	1390	Glu	Cys	Ala
			1395						1400						1405			

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Glu Gly Gly Glu Asn Leu Ser Val Gly Gln Arg Gln Leu Val Cys Leu
 1410 1415 1420
 Ala Arg Ala Leu Leu Arg Lys Thr Lys Ile Leu Val Leu Asp Glu Ala
 1425 1430 1435 1440
 Thr Ala Ala Val Asp Leu Glu Thr Asp Asp Leu Ile Gln Ser Thr Ile
 1445 1450 1455
 Arg Thr Gln Phe Glu Asp Cys Thr Val Leu Thr Ile Ala His Arg Leu
 1460 1465 1470
 Asn Thr Ile Met Asp Tyr Thr Arg Val Ile Val Leu Asp Lys Gly Glu
 1475 1480 1485
 Ile Gln Glu Tyr Gly Ala Pro Ser Asp Leu Leu Gln Gln Arg Gly Leu
 1490 1495 1500
 Phe Tyr Ser Met Ala Lys Asp Ala Gly Leu Val
 1505 1510 1515

<210> 43

<211> 357

<212> PRT

<213> Homo sapiens

<400> 43

Phe Cys Arg Ala Gln Asp Leu Glu Tyr Leu Thr Gly Arg Val Trp Val
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 Gly Leu Trp Leu Val Val Phe Val Leu Ala Leu Val Ala Ala Glu Gly
 20 25 30
 Ser Phe Leu Val Arg Tyr Ile Ser Pro Phe Thr Gln Glu Ile Phe Ala
 35 40 45
 Phe Leu Ile Ser Leu Ile Phe Ile Tyr Glu Thr Phe Tyr Lys Leu Tyr
 50 55 60
 Lys Val Phe Thr Glu His Pro Leu Leu Pro Phe Tyr Pro Pro Glu Pro
 65 70 75 80
 Gly Gly Val Pro Gly Cys Trp Ser Gly Ala Lys Trp Gln Leu Pro Pro
 85 90 95
 Thr Glu Gly Pro Pro Ser Pro Arg Asn Gln Pro Asn Thr Ala Leu Leu
 100 105 110
 Ser Leu Ile Leu Met Leu Gly Thr Phe Phe Ile Ala Phe Phe Leu Arg
 115 120 125
 Lys Phe Arg Asn Ser Arg Phe Leu Gly Gly Lys Ala Arg Arg Ile Ile
 130 135 140
 Gly Asp Phe Gly Ile Pro Ile Ser Ile Leu Val Met Val Leu Val Asp
 145 150 155 160
 Tyr Ser Ile Thr Asp Thr Tyr Thr Gln Lys Leu Thr Val Pro Thr Gly
 165 170 175
 Leu Ser Val Thr Ser Pro Asp Lys Arg Ser Trp Phe Ile Pro Pro Leu
 180 185 190
 Gly Ser Ala Arg Pro Phe Pro Pro Trp Met Met Val Ala Ala Ala Val
 195 200 205
 Pro Ala Leu Leu Val Leu Ile Leu Ile Phe Met Glu Thr Gln Ile Thr
 210 215 220
 Ala Leu Ile Val Ser Gln Lys Ala Arg Arg Leu Lys Gly Ser Gly
 225 230 235 240
 Phe His Leu Asp Leu Leu Leu Ile Gly Ser Leu Gly Gly Leu Cys Gly
 245 250 255
 Leu Phe Gly Leu Pro Trp Leu Thr Ala Ala Thr Val Arg Ser Val Thr
 260 265 270
 His Val Asn Ala Leu Thr Val Met Arg Thr Ala Ile Ala Pro Gly Asp
 275 280 285
 Lys Pro Gln Ile Gln Glu Val Arg Glu Gln Arg Val Thr Gly Val Leu
 290 295 300
 Ile Ala Ser Leu Val Gly Leu Ser Ile Val Met Gly Ala Val Leu Arg
 305 310 315 320
 Arg Ile Pro Leu Ala Val Leu Phe Gly Ile Phe Leu Tyr Met Gly Val
 325 330 335

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Thr Ser Leu Ser Gly Ile Gln Leu Ser Gln Arg Leu Leu Leu Ile Leu
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 Met Pro Ala Lys His
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<211> 2147

<212> PRT

<213> Homo sapiens

<400> 44

Met Ala Phe Trp Thr Gln Leu Met Leu Leu Leu Trp Lys Asn Phe Met
 1 5 10 15
 Tyr Arg Arg Arg Gln Pro Val Gln Leu Val Glu Leu Leu Trp Pro
 20 25 30
 Leu Phe Leu Phe Phe Ile Leu Val Ala Val Arg His Ser His Pro Pro
 35 40 45
 Leu Glu His His Glu Cys His Phe Pro Asn Lys Pro Leu Pro Ser Ala
 50 55 60
 Gly Thr Val Pro Trp Leu Gln Gly Leu Ile Cys Asn Val Asn Asn Thr
 65 70 75 80
 Cys Phe Pro Gln Leu Thr Pro Gly Glu Glu Pro Gly Arg Leu Ser Asn
 85 90 95
 Phe Asn Asp Ser Leu Val Ser Arg Leu Leu Ala Asp Ala Arg Thr Val
 100 105 110
 Leu Gly Gly Ala Ser Ala His Arg Thr Leu Ala Gly Leu Gly Lys Leu
 115 120 125
 Ile Ala Thr Leu Arg Ala Ala Arg Ser Thr Ala Gln Pro Gln Pro Thr
 130 135 140
 Lys Gln Ser Pro Leu Glu Pro Pro Met Leu Asp Val Ala Glu Leu Leu
 145 150 155 160
 Thr Ser Leu Leu Arg Thr Glu Ser Leu Gly Leu Ala Leu Gly Gln Ala
 165 170 175
 Gln Glu Pro Leu His Ser Leu Leu Glu Ala Ala Glu Asp Leu Ala Gln
 180 185 190
 Glu Leu Leu Ala Leu Arg Ser Leu Val Glu Leu Arg Ala Leu Leu Gln
 195 200 205
 Arg Pro Arg Gly Thr Ser Gly Pro Ser Ser Thr Val Gly Pro Ser Leu Asn Trp
 210 215 220 225 230 235 240
 Cys Ser Val Arg Gly Pro Ser Ser Thr Val Gly Gln Glu Pro Glu Ser
 245 250 255
 Tyr Glu Ala Ser Asp Leu Met Glu Leu Val Gly Gln Glu Pro Glu Ser
 260 265 270
 Ala Leu Pro Asp Ser Ser Leu Ser Pro Ala Cys Ser Glu Leu Ile Gly
 275 280 285
 Ala Leu Asp Ser His Pro Leu Ser Arg Leu Leu Trp Arg Arg Leu Lys
 290 295 300
 Pro Leu Ile Leu Gly Lys Leu Leu Phe Ala Pro Asp Thr Pro Phe Thr
 305 310 315 320
 Arg Lys Leu Met Ala Gln Val Asn Arg Thr Phe Glu Glu Leu Thr Leu
 325 330 335
 Leu Arg Asp Val Arg Glu Val Trp Glu Met Leu Gly Pro Arg Ile Phe
 340 345 350
 Thr Phe Met Asn Asp Ser Ser Asn Val Ala Met Leu Gln Arg Leu Leu
 355 360 365
 Gln Met Gln Asp Glu Gly Arg Arg Gln Pro Arg Pro Gly Gly Arg Asp
 370 375 380
 His Met Glu Ala Leu Arg Ser Phe Leu Asp Pro Gly Ser Gly Gly Tyr
 385 390 395 400
 Ser Trp Gln Asp Ala His Ala Asp Val Gly His Leu Val Gly Thr Leu
 405 410 415
 Gly Arg Val Thr Glu Cys Leu Ser Leu Asp Lys Leu Glu Ala Ala Pro

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Ser	Glu	Ala	Ala	Leu	Val	Ser	Arg	Ala	Leu	Gln	Leu	Leu	Ala	Glu	His
			420					425					430		
Arg	Phe	Trp	Ala	Gly	Val	Val	Phe	Leu	Gly	Pro	Glu	Asp	Ser	Ser	Asp
		435					440					445			
Pro	Thr	Glu	His	Pro	Thr	Pro	Asp	Leu	Gly	Pro	Gly	His	Val	Arg	Ile
	450					455					460				
Lys	Ile	Arg	Met	Asp	Ile	Asp	Val	Val	Thr	Arg	Thr	Asn	Lys	Ile	Arg
465					470					475					480
Asp	Arg	Phe	Trp	Asp	Pro	Gly	Pro	Ala	Ala	Asp	Pro	Leu	Thr	Asp	Leu
				485					490					495	
Arg	Tyr	Val	Trp	Gly	Gly	Phe	Val	Tyr	Leu	Gln	Asp	Leu	Val	Glu	Arg
			500					505					510		
Ala	Ala	Val	Arg	Val	Leu	Ser	Gly	Ala	Asn	Pro	Arg	Ala	Gly	Leu	Tyr
		515					520					525			
Leu	Gln	Gln	Met	Pro	Tyr	Pro	Cys	Tyr	Val	Asp	Asp	Val	Phe	Leu	Arg
	530					535					540				
Val	Leu	Ser	Arg	Ser	Leu	Pro	Leu	Phe	Leu	Thr	Leu	Ala	Trp	Ile	Tyr
545					550					555					560
Ser	Val	Thr	Leu	Thr	Val	Lys	Ala	Val	Val	Arg	Glu	Lys	Glu	Thr	Arg
				565					570					575	
Leu	Arg	Asp	Thr	Met	Arg	Ala	Met	Gly	Leu	Ser	Arg	Ala	Val	Leu	Trp
			580					585					590		
Leu	Gly	Trp	Phe	Leu	Ser	Cys	Leu	Gly	Pro	Phe	Leu	Leu	Ser	Ala	Ala
		595					600					605			
Leu	Leu	Val	Leu	Val	Leu	Lys	Leu	Gly	Asp	Ile	Leu	Pro	Tyr	Ser	His
	610					615					620				
Pro	Gly	Val	Val	Phe	Leu	Phe	Leu	Ala	Ala	Phe	Ala	Val	Ala	Thr	Val
625					630					635					640
Thr	Gln	Ser	Phe	Leu	Leu	Ser	Ala	Phe	Phe	Ser	Arg	Ala	Asn	Leu	Ala
				645					650					655	
Ala	Ala	Cys	Gly	Leu	Ala	Tyr	Phe	Ser	Leu	Tyr	Leu	Pro	Tyr	Val	
			660				665					670			
Leu	Cys	Val	Ala	Trp	Arg	Asp	Arg	Leu	Pro	Ala	Gly	Gly	Arg	Val	Ala
		675					680					685			
Ala	Ser	Leu	Leu	Ser	Pro	Val	Ala	Phe	Gly	Phe	Gly	Cys	Glu	Ser	Leu
	690					695					700				
Ala	Leu	Leu	Glu	Glu	Gln	Gly	Glu	Gly	Ala	Gln	Trp	His	Asn	Val	Gly
705					710					715					720
Thr	Arg	Pro	Thr	Ala	Asp	Val	Phe	Ser	Leu	Ala	Gln	Val	Ser	Gly	Leu
				725					730					735	
Leu	Leu	Leu	Asp	Ala	Ala	Leu	Tyr	Gly	Leu	Ala	Thr	Trp	Tyr	Leu	Glu
			740					745					750		
Ala	Val	Cys	Pro	Gly	Gln	Tyr	Gly	Ile	Pro	Glu	Pro	Trp	Asn	Phe	Pro
		755					760					765			
Phe	Arg	Arg	Ser	Tyr	Trp	Cys	Gly	Pro	Arg	Pro	Pro	Lys	Ser	Pro	Ala
	770					775					780				
Pro	Cys	Pro	Thr	Pro	Leu	Asp	Pro	Lys	Val	Leu	Val	Glu	Glu	Ala	Pro
785					790					795					800
Pro	Gly	Leu	Ser	Pro	Gly	Val	Ser	Val	Arg	Ser	Leu	Glu	Lys	Arg	Phe
				805					810					815	
Pro	Gly	Ser	Pro	Gln	Pro	Ala	Leu	Arg	Gly	Leu	Ser	Leu	Asp	Phe	Tyr
			820					825					830		
Gln	Gly	His	Ile	Thr	Ala	Phe	Leu	Gly	His	Asn	Gly	Ala	Gly	Lys	Thr
		835					840					845			
Thr	Thr	Leu	Ser	Ile	Leu	Ser	Gly	Leu	Phe	Pro	Pro	Ser	Gly	Gly	Ser
	850					855					860				
Ala	Phe	Ile	Leu	Gly	His	Asp	Val	Arg	Ser	Ser	Met	Ala	Ala	Ile	Arg
865					870					875					880
Pro	His	Leu	Gly	Val	Cys	Pro	Gln	Tyr	Asn	Val	Leu	Phe	Asp	Met	Leu
				885					890					895	
Thr	Val	Asp	Glu	His	Val	Trp	Phe	Tyr	Gly	Arg	Leu	Lys	Gly	Leu	Ser
			900					905					910		
Ala	Ala	Val	Val	Gly	Pro	Glu	Gln	Asp	Arg	Leu	Leu	Gln	Asp	Val	Gly

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915 920 925
 Leu Val Ser Lys Gln Ser Val Gln Thr Arg His Leu Ser Gly Gly Met
 930 935 940
 Gln Arg Lys Leu Ser Val Ala Ile Ala Phe Val Gly Gly Ser Gln Val
 945 950 955 960
 Val Ile Leu Asp Glu Pro Thr Ala Gly Val Asp Pro Ala Ser Arg Arg
 965 970 975
 Gly Ile Trp Glu Leu Leu Lys Tyr Arg Glu Gly Arg Thr Leu Ile
 980 985 990
 Leu Ser Thr His His Leu Asp Glu Ala Glu Leu Leu Gly Asp Arg Val
 995 1000 1005
 Ala Val Val Ala Gly Gly Arg Leu Cys Cys Cys Gly Ser Pro Leu Phe
 1010 1015 1020
 Leu Arg Arg His Leu Gly Ser Gly Tyr Tyr Leu Thr Leu Val Lys Ala
 1025 1030 1035 1040
 Arg Leu Pro Leu Thr Thr Asn Glu Lys Ala Asp Thr Asp Met Glu Gly
 1045 1050 1055
 Ser Val Asp Thr Arg Gln Glu Lys Lys Asn Gly Ser Gln Gly Ser Arg
 1060 1065 1070
 Val Gly Thr Pro Gln Leu Leu Ala Leu Val Gln His Trp Val Pro Gly
 1075 1080 1085
 Ala Arg Leu Val Glu Glu Leu Pro His Glu Leu Val Leu Val Leu Pro
 1090 1095 1100
 Tyr Thr Gly Ala His Asp Gly Ser Phe Ala Thr Leu Phe Arg Glu Leu
 1105 1110 1115 1120
 Asp Thr Arg Leu Ala Glu Leu Arg Leu Thr Gly Tyr Gly Ile Ser Asp
 1125 1130 1135
 Thr Ser Leu Glu Glu Ile Phe Leu Lys Val Val Glu Glu Cys Ala Ala
 1140 1145 1150
 Asp Thr Asp Met Glu Asp Gly Ser Cys Gly Gln His Leu Cys Thr Gly
 1155 1160 1165
 Ile Ala Gly Leu Asp Val Thr Leu Arg Leu Lys Met Pro Pro Gln Glu
 1170 1175 1180
 Thr Ala Leu Glu Asn Gly Glu Pro Ala Gly Ser Ala Pro Glu Thr Asp
 1185 1190 1195 1200
 Gln Gly Ser Gly Pro Asp Ala Val Gly Arg Val Gln Gly Trp Ala Leu
 1205 1210 1215
 Thr Arg Gln Gln Leu Gln Ala Leu Leu Lys Arg Phe Leu Leu Ala
 1220 1225 1230
 Arg Arg Ser Arg Arg Gly Leu Phe Ala Gln Ile Val Leu Pro Ala Leu
 1235 1240 1245
 Phe Val Gly Leu Ala Leu Val Phe Ser Leu Ile Val Pro Pro Phe Gly
 1250 1255 1260
 His Tyr Pro Ala Leu Arg Leu Ser Pro Thr Met Tyr Gly Ala Gln Val
 1265 1270 1275 1280
 Ser Phe Phe Ser Glu Asp Ala Pro Gly Asp Pro Gly Arg Ala Arg Leu
 1285 1290 1295
 Leu Glu Ala Leu Leu Gln Glu Ala Gly Leu Glu Glu Pro Pro Val Gln
 1300 1305 1310
 His Ser Ser His Arg Phe Ser Ala Pro Glu Val Pro Ala Glu Val Ala
 1315 1320 1325
 Lys Val Leu Ala Ser Gly Asn Trp Thr Pro Glu Ser Pro Ser Pro Ala
 1330 1335 1340
 Cys Gln Cys Ser Arg Pro Gly Ala Arg Arg Leu Leu Pro Asp Cys Pro
 1345 1350 1355 1360
 Ala Ala Ala Gly Gly Pro Pro Pro Pro Gln Ala Val Thr Gly Ser Gly
 1365 1370 1375
 Glu Val Val Gln Asn Leu Thr Gly Arg Asn Leu Ser Asp Phe Leu Val
 1380 1385 1390
 Lys Thr Tyr Pro Arg Leu Val Arg Gln Gly Leu Lys Thr Lys Lys Trp
 1395 1400 1405
 Val Asn Glu Val Arg Tyr Gly Gly Phe Ser Leu Gly Gly Arg Asp Pro
 1410 1415 1420

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Gly Leu Pro Ser Gly Gln Glu Leu Gly Arg Ser Val Glu Glu Leu Trp
 1425 1430 1435 1440
 Ala Leu Leu Ser Pro Leu Pro Gly Gly Ala Leu Asp Arg Val Leu Lys
 1445 1450 1455
 Asn Leu Thr Ala Trp Ala His Ser Leu Asp Ala Gln Asp Ser Leu Lys
 1460 1465 1470
 Ile Trp Phe Asn Asn Lys Gly Trp His Ser Met Val Ala Phe Val Asn
 1475 1480 1485
 Arg Ala Ser Asn Ala Ile Leu Arg Ala His Leu Pro Pro Gly Pro Ala
 1490 1495 1500
 Arg His Ala His Ser Ile Thr Thr Leu Asn His Pro Leu Asn Leu Thr
 1505 1510 1515 1520
 Lys Glu Gln Leu Ser Glu Gly Ala Leu Met Ala Ser Ser Val Asp Val
 1525 1530 1535
 Leu Val Ser Ile Cys Val Val Phe Ala Met Ser Phe Val Pro Ala Ser
 1540 1545 1550
 Phe Thr Leu Val Leu Ile Glu Glu Arg Val Thr Arg Ala Lys His Leu
 1555 1560 1565
 Gln Leu Met Gly Gly Leu Ser Pro Thr Leu Tyr Trp Leu Gly Asn Phe
 1570 1575 1580
 Leu Trp Asp Met Cys Asn Tyr Leu Val Pro Ala Cys Ile Val Val Leu
 1585 1590 1595 1600
 Ile Phe Leu Ala Phe Gln Gln Arg Ala Tyr Val Ala Pro Ala Asn Leu
 1605 1610 1615
 Pro Ala Leu Leu Leu Leu Leu Tyr Gly Trp Ser Ile Thr Pro
 1620 1625 1630
 Leu Met Tyr Pro Ala Ser Phe Phe Phe Ser Val Pro Ser Thr Ala Tyr
 1635 1640 1645
 Val Val Leu Thr Cys Ile Asn Leu Phe Ile Gly Ile Asn Gly Ser Met
 1650 1655 1660
 Ala Thr Phe Val Leu Glu Leu Phe Ser Asp Gln Gln Lys Leu Gln Glu
 1665 1670 1675 1680
 Val Ser Arg Ile Leu Lys Gln Val Phe Leu Ile Phe Pro His Phe Cys
 1685 1690 1695
 Leu Gly Arg Gly Leu Ile Asp Met Val Arg Asn Gln Ala Met Ala Asp
 1700 1705 1710
 Ala Phe Glu Arg Leu Gly Asp Arg Gln Phe Gln Ser Pro Leu Arg Trp
 1715 1720 1725
 Glu Val Val Gly Lys Asn Leu Leu Ala Met Val Ile Gln Gly Pro Leu
 1730 1735 1740
 Phe Leu Leu Phe Thr Leu Leu Leu Gln His Arg Ser Gln Leu Leu Pro
 1745 1750 1755 1760
 Gln Pro Arg Val Arg Ser Leu Pro Leu Leu Gly Glu Glu Asp Glu Asp
 1765 1770 1775
 Val Ala Arg Glu Arg Glu Arg Val Val Gln Gly Ala Thr Gln Gly Asp
 1780 1785 1790
 Val Leu Val Leu Arg Asn Leu Thr Lys Val Tyr Arg Gly Gln Arg Met
 1795 1800 1805
 Pro Ala Val Asp Arg Leu Cys Leu Gly Ile Pro Pro Gly Glu Cys Phe
 1810 1815 1820
 Gly Leu Leu Gly Val Asn Gly Ala Gly Lys Thr Ser Thr Phe Arg Met
 1825 1830 1835 1840
 Val Thr Gly Asp Thr Leu Ala Ser Arg Gly Glu Ala Val Leu Ala Gly
 1845 1850 1855
 His Ser Val Ala Arg Glu Pro Ser Ala Ala His Leu Ser Met Gly Tyr
 1860 1865 1870
 Cys Pro Gln Ser Asp Ala Ile Phe Glu Leu Leu Thr Gly Arg Glu His
 1875 1880 1885
 Leu Glu Leu Leu Ala Arg Leu Arg Gly Val Pro Glu Ala Gln Val Ala
 1890 1895 1900
 Gln Thr Ala Gly Ser Gly Leu Ala Arg Leu Gly Leu Ser Trp Tyr Ala
 1905 1910 1915 1920
 Asp Arg Pro Ala Gly Thr Tyr Ser Gly Gly Asn Lys Arg Lys Leu Ala

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1925 1930 1935
 Thr Ala Leu Ala Leu Val Gly Asp Pro Ala Val Val Phe Leu Asp Glu
 1940 1945 1950
 Pro Thr Thr Gly Met Asp Pro Ser Ala Arg Arg Phe Leu Trp Asn Ser
 1955 1960 1965
 Leu Leu Ala Val Val Arg Glu Gly Arg Ser Val Met Leu Thr Ser His
 1970 1975 1980
 Ser Met Glu Glu Cys Glu Ala Leu Cys Ser Arg Leu Ala Ile Met Val
 1985 1990 1995 2000
 Asn Gly Arg Phe Arg Cys Leu Gly Ser Pro Gln His Leu Lys Gly Arg
 2005 2010 2015
 Phe Ala Ala Gly His Thr Leu Thr Leu Arg Val Pro Ala Ala Arg Ser
 2020 2025 2030
 Gln Pro Ala Ala Phe Val Ala Ala Glu Phe Pro Gly Ala Glu Leu
 2035 2040 2045
 Arg Glu Ala His Gly Gly Arg Leu Arg Phe Gln Leu Pro Pro Gly Gly
 2050 2055 2060
 Arg Cys Ala Leu Ala Arg Val Phe Gly Glu Leu Ala Val His Gly Ala
 2065 2070 2075 2080
 Glu His Gly Val Glu Asp Phe Ser Val Ser Gln Thr Met Leu Glu Glu
 2085 2090 2095
 Val Phe Leu Tyr Phe Ser Lys Asp Gln Gly Lys Asp Glu Asp Thr Glu
 2100 2105 2110
 Glu Gln Lys Glu Ala Gly Val Gly Val Asp Pro Ala Pro Gly Leu Gln
 2115 2120 2125
 His Pro Lys Arg Val Ser Gln Phe Leu Asp Asp Pro Ser Thr Ala Glu
 2130 2135 2140
 Thr Val Leu
 2145

<210> 45

<211> 650

<212> PRT

<213> Homo sapiens

<400> 45

Met Arg Leu Lys Asn Leu Thr Phe Ile Ile Ile Leu Ile Ile Ser Gly
 1 5 10 15
 Glu Leu Tyr Ala Glu Glu Lys Pro Cys Gly Phe Pro His Val Glu Asn
 20 25 30
 Gly Arg Ile Ala Gln Tyr Tyr Tyr Thr Phe Lys Ser Phe Tyr Phe Pro
 35 40 45
 Met Ser Ile Asp Lys Lys Leu Ser Phe Phe Cys Leu Ala Gly Tyr Thr
 50 55 60
 Thr Glu Ser Gly Arg Gln Glu Glu Gln Thr Thr Cys Thr Thr Glu Gly
 65 70 75 80
 Trp Ser Pro Glu Pro Arg Cys Phe Lys Lys Cys Thr Lys Pro Asp Leu
 85 90 95
 Ser Asn Gly Tyr Ile Ser Asp Val Lys Leu Leu Tyr Lys Ile Gln Glu
 100 105 110
 Asn Met His Tyr Gly Cys Ala Ser Gly Tyr Lys Thr Thr Gly Gly Lys
 115 120 125
 Asp Glu Glu Val Val Gln Cys Leu Ser Asp Gly Trp Ser Ser Gln Pro
 130 135 140
 Thr Cys Arg Lys Glu His Glu Thr Cys Leu Ala Pro Glu Leu Tyr Asn
 145 150 155 160
 Gly Asn Tyr Ser Thr Thr Gln Lys Thr Phe Lys Val Lys Asp Lys Val
 165 170 175
 Gln Tyr Glu Cys Ala Thr Gly Tyr Tyr Thr Ala Gly Gly Lys Lys Thr
 180 185 190
 Glu Glu Val Glu Cys Leu Thr Tyr Gly Trp Ser Leu Thr Pro Lys Cys
 195 200 205
 Thr Lys Leu Lys Cys Ser Ser Leu Arg Leu Ile Glu Asn Gly Tyr Phe

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210	His	Pro	Val	Lys	Gln	Thr	215	Tyr	Glu	Glu	Gly	Asp	220	Val	Val	Gln	Phe	Phe
225	Cys	His	Glu	Asn	Tyr	Tyr	230	Leu	Ser	Gly	Ser	Asp	235	Leu	Ile	Gln	Cys	Tyr
	Asn	Phe	Gly	Trp	245	Tyr	Pro	Glu	Ser	Pro	Val	Cys	Glu	Gly	Arg	Arg	Asn	
	Arg	Cys	Pro	Pro	Pro	Pro	Leu	Pro	Ile	Asn	Ser	Lys	Ile	Gln	Thr	His		
	Ser	Thr	Thr	Tyr	Arg	His	Gly	Glu	Ile	Val	His	Ile	Glu	Cys	Glu	Leu		
	Asn	Phe	Glu	Ile	His	Gly	Ser	Ala	Glu	Ile	Arg	Cys	Glu	Asp	Gly	Lys		
305	Ser	Thr	Glu	Pro	Pro	310	Lys	Cys	Ile	Glu	Gly	Gln	Glu	Lys	Val	Ala	Cys	
	Glu	Glu	Pro	Pro	Phe	Ile	Glu	Asn	Gly	Ala	Ala	Asn	Leu	His	Ser	Lys		
	Ile	Tyr	Tyr	Asn	Gly	Asp	Lys	Val	Thr	Tyr	Ala	Cys	Lys	Ser	Gly	Tyr		
	Leu	Leu	His	Gly	Ser	Asn	Glu	Ile	Thr	Cys	Asn	Arg	Gly	Lys	Trp	Thr		
385	Leu	Pro	Pro	Glu	Cys	Val	Glu	Asn	Asn	Glu	Asn	Cys	Lys	His	Pro	Pro		
	Val	Val	Met	Asn	Gly	Ala	Val	Ala	Asp	Gly	Ile	Leu	Ala	Ser	Tyr	Ala		
	Thr	Gly	Ser	Ser	Val	Glu	Tyr	Arg	Cys	Asn	Glu	Tyr	Tyr	Leu	Leu	Arg		
	Gly	Ser	Lys	Ile	Ser	Arg	Cys	Glu	Gln	Gly	Lys	Trp	Ser	Ser	Pro	Pro		
	Val	Cys	Leu	Glu	Pro	Cys	Thr	Val	Asn	Val	Asp	Tyr	Met	Asn	Arg	Asn		
465	Asn	Ile	Glu	Met	Lys	Trp	Lys	Tyr	Glu	Gly	Lys	Val	Leu	His	Gly	Asp		
	Leu	Ile	Asp	Phe	Val	Cys	Lys	Gln	Gly	Tyr	Asp	Leu	Ser	Pro	Leu	Thr		
	Pro	Leu	Ser	Glu	Leu	Ser	Val	Gln	Cys	Asn	Arg	Gly	Glu	Val	Lys	Tyr		
	Pro	Leu	Cys	Thr	Arg	Lys	Glu	Ser	Lys	Gly	Met	Cys	Thr	Ser	Pro	Pro		
	Leu	Ile	Lys	His	Gly	Val	Ile	Ile	Ser	Ser	Thr	Val	Asp	Thr	Tyr	Glu		
545	Asn	Gly	Ser	Ser	Val	Glu	Tyr	Arg	Cys	Phe	Asp	His	His	Phe	Leu	Glu		
	Gly	Ser	Arg	Glu	Ala	Tyr	Cys	Leu	Asp	Gly	Met	Trp	Thr	Thr	Pro	Pro		
	Leu	Cys	Leu	Glu	Pro	Cys	Thr	Leu	Ser	Phe	Thr	Glu	Met	Glu	Lys	Asn		
	Asn	Leu	Leu	Leu	Lys	Trp	Asp	Phe	Asp	Asn	Arg	Pro	His	Ile	Leu	His		
	Gly	Glu	Tyr	Ile	Glu	Phe	Ile	Cys	Arg	Gly	Asp	Thr	Tyr	Pro	Ala	Glu		
625	Leu	Tyr	Ile	Thr	Gly	Ser	Ile	Leu	Arg	Met	Gln	Cys	Asp	Arg	Gly	Gln		
	Leu	Lys	Tyr	Pro	Arg	Cys	Ile	Pro	Arg	Gln								

<210> 46

<211> 2496

<212> PRT

<213> Homo sapiens

<400> 46

Met Gly Ala Ala Ala Gly Arg Ser Pro His Leu Gly Pro Ala Pro Ala

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1	Arg	Arg	Pro	Gln	5	Arg	Ser	Leu	Leu	10	Leu	Gln	Leu	Leu	15	Leu	Val
				20						25					30		
Ala	Ala	Pro	Gly	Ser	Thr	Gln	Ala	Gln	Ala	Ala	Pro	Phe	Pro	Glu	Leu		
		35					40					45					
Cys	Ser	Tyr	Thr	Trp	Glu	Ala	Val	Asp	Thr	Lys	Asn	Asn	Val	Leu	Tyr		
	50					55					60						
Lys	Ile	Asn	Ile	Cys	Gly	Ser	Val	Asp	Ile	Val	Gln	Cys	Gly	Pro	Ser		
65					70					75					80		
Ser	Ala	Val	Cys	Met	His	Asp	Leu	Lys	Thr	Arg	Thr	Tyr	His	Ser	Val		
				85					90					95			
Gly	Asp	Ser	Val	Leu	Arg	Ser	Ala	Thr	Arg	Ser	Leu	Leu	Glu	Phe	Asn		
			100					105					110				
Thr	Thr	Val	Ser	Cys	Asp	Gln	Gln	Gly	Thr	Asn	His	Arg	Val	Gln	Ser		
		115					120					125					
Ser	Ile	Ala	Phe	Leu	Cys	Gly	Lys	Thr	Leu	Gly	Thr	Pro	Glu	Phe	Val		
	130					135					140						
Thr	Ala	Thr	Glu	Cys	Val	His	Tyr	Phe	Glu	Trp	Arg	Thr	Thr	Ala	Ala		
145					150				155						160		
Cys	Lys	Lys	Asp	Ile	Phe	Lys	Ala	Asn	Lys	Glu	Val	Pro	Cys	Tyr	Val		
				165					170					175			
Phe	Asp	Glu	Glu	Leu	Arg	Lys	His	Asp	Leu	Asn	Pro	Leu	Ile	Lys	Leu		
			180					185					190				
Ser	Gly	Ala	Tyr	Leu	Val	Asp	Asp	Ser	Asp	Pro	Asp	Thr	Ser	Leu	Phe		
		195					200					205					
Ile	Asn	Val	Cys	Arg	Asp	Ile	Asp	Thr	Leu	Arg	Asp	Pro	Gly	Ser	Gln		
	210					215					220						
Leu	Arg	Ala	Cys	Pro	Pro	Gly	Thr	Ala	Ala	Cys	Leu	Val	Arg	Gly	His		
225					230					235					240		
Gln	Ala	Phe	Asp	Val	Gly	Gln	Pro	Arg	Asp	Gly	Leu	Lys	Leu	Val	Arg		
				245					250					255			
Lys	Asp	Arg	Leu	Val	Leu	Ser	Tyr	Val	Arg	Glu	Glu	Ala	Gly	Lys	Leu		
			260					265					270				
Asp	Phe	Cys	Asp	Gly	His	Ser	Pro	Ala	Val	Thr	Ile	Thr	Phe	Val	Cys		
		275					280					285					
Pro	Ser	Glu	Arg	Arg	Glu	Gly	Thr	Ile	Pro	Lys	Leu	Thr	Ala	Lys	Ser		
	290					295					300						
Asn	Cys	Arg	Tyr	Glu	Ile	Glu	Trp	Ile	Thr	Glu	Tyr	Ala	Cys	His	Arg		
305					310					315					320		
Asp	Tyr	Leu	Glu	Ser	Lys	Thr	Cys	Ser	Leu	Ser	Gly	Glu	Gln	Gln	Asp		
				325					330					335			
Val	Ser	Ile	Asp	Leu	Thr	Pro	Leu	Ala	Gln	Ser	Gly	Gly	Ser	Ser	Tyr		
			340					345					350				
Ile	Ser	Asp	Gly	Lys	Glu	Tyr	Leu	Phe	Tyr	Leu	Asn	Val	Cys	Gly	Glu		
		355					360					365					
Thr	Glu	Ile	Gln	Phe	Cys	Asn	Lys	Lys	Gln	Ala	Ala	Val	Cys	Gln	Val		
	370					375					380						
Lys	Lys	Ser	Asp	Thr	Ser	Gln	Val	Lys	Ala	Ala	Gly	Arg	Tyr	His	Asn		
385					390					395					400		
Gln	Thr	Leu	Arg	Tyr	Ser	Asp	Gly	Asp	Leu	Thr	Leu	Ile	Tyr	Phe	Gly		
				405					410					415			
Gly	Asp	Glu	Cys	Ser	Ser	Gly	Phe	Gln	Arg	Met	Ser	Val	Ile	Asn	Phe		
			420					425					430				
Glu	Cys	Asn	Lys	Thr	Ala	Gly	Asn	Asp	Gly	Lys	Gly	Thr	Pro	Val	Phe		
		435					440					445					
Thr	Gly	Glu	Val	Asp	Cys	Thr	Tyr	Phe	Phe	Thr	Trp	Asp	Thr	Glu	Tyr		
	450					455					460						
Ala	Cys	Val	Lys	Glu	Lys	Glu	Asp	Leu	Leu	Cys	Gly	Ala	Thr	Asp	Gly		
465					470					475					480		
Lys	Lys	Arg	Tyr	Asp	Leu	Ser	Ala	Leu	Val	Arg	His	Ala	Glu	Pro	Glu		
				485					490					495			
Gln	Asn	Trp	Glu	Ala	Val	Asp	Gly	Ser	Gln	Thr	Glu	Thr	Glu	Lys	Lys		
			500					505					510				

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His	Phe	Phe	Ile	Asn	Ile	Cys	His	Arg	Val	Leu	Gln	Glu	Gly	Lys	Ala
		515					520					525			
Arg	Gly	Cys	Pro	Glu	Asp	Ala	Ala	Val	Cys	Ala	Val	Asp	Lys	Asn	Gly
	530					535					540				
Ser	Lys	Asn	Leu	Gly	Lys	Phe	Ile	Ser	Ser	Pro	Met	Lys	Glu	Lys	Gly
	545				550					555					560
Asn	Ile	Gln	Leu	Ser	Tyr	Ser	Asp	Gly	Asp	Asp	Cys	Gly	His	Gly	Lys
				565					570					575	
Lys	Ile	Lys	Thr	Asn	Ile	Thr	Leu	Val	Cys	Lys	Pro	Gly	Asp	Leu	Glu
			580					585					590		
Ser	Ala	Pro	Val	Leu	Arg	Thr	Ser	Gly	Glu	Gly	Gly	Cys	Phe	Tyr	Glu
		595					600					605			
Phe	Glu	Trp	His	Thr	Ala	Ala	Ala	Cys	Val	Leu	Ser	Lys	Thr	Glu	Gly
	610					615						620			
Glu	Asn	Cys	Thr	Val	Phe	Asp	Ser	Gln	Ala	Gly	Phe	Ser	Phe	Asp	Leu
	625				630					635					640
Ser	Pro	Leu	Thr	Lys	Lys	Asn	Gly	Ala	Tyr	Lys	Val	Glu	Thr	Lys	Lys
				645					650					655	
Tyr	Asp	Phe	Tyr	Ile	Asn	Val	Cys	Gly	Pro	Val	Ser	Val	Ser	Pro	Cys
			660					665					670		
Gln	Pro	Asp	Ser	Gly	Ala	Cys	Gln	Val	Ala	Lys	Arg	Gln	Val	Ala	Ser
		675					680					685			
His	Asp	Glu	Lys	Thr	Trp	Asn	Leu	Gly	Leu	Ser	Asn	Ala	Lys	Leu	Ser
	690					695					700				
Tyr	Tyr	Asp	Gly	Met	Ile	Gln	Leu	Asn	Tyr	Arg	Gly	Gly	Thr	Pro	Tyr
	705				710					715					720
Asn	Asn	Glu	Arg	His	Thr	Pro	Arg	Ala	Thr	Leu	Ile	Thr	Phe	Leu	Cys
				725					730					735	
Asp	Arg	Asp	Ala	Gly	Val	Gly	Phe	Pro	Glu	Tyr	Gln	Glu	Glu	Asp	Asn
			740					745					750		
Ser	Thr	Tyr	Asn	Phe	Arg	Trp	Tyr	Thr	Ser	Tyr	Ala	Cys	Pro	Glu	Glu
		755					760					765			
Pro	Leu	Glu	Cys	Val	Val	Thr	Asp	Pro	Ser	Thr	Leu	Glu	Gln	Tyr	Asp
	770					775					780				
Leu	Ser	Ser	Leu	Ala	Lys	Ser	Glu	Gly	Gly	Leu	Gly	Gly	Asn	Trp	Tyr
	785				790					795					800
Ala	Met	Asp	Asn	Ser	Gly	Glu	His	Val	Thr	Trp	Arg	Lys	Tyr	Tyr	Ile
				805					810					815	
Asn	Val	Cys	Arg	Pro	Leu	Asn	Pro	Val	Pro	Gly	Cys	Asn	Arg	Tyr	Ala
			820					825					830		
Ser	Ala	Cys	Gln	Met	Lys	Tyr	Glu	Lys	Asp	Gln	Gly	Ser	Phe	Thr	Glu
		835					840					845			
Val	Val	Ser	Ile	Ser	Asn	Leu	Gly	Met	Ala	Lys	Thr	Gly	Pro	Val	Val
	850					855					860				
Glu	Asp	Ser	Gly	Ser	Leu	Leu	Glu	Tyr	Val	Asn	Gly	Ser	Ala	Cys	
	865				870				875					880	
Thr	Thr	Ser	Asp	Gly	Arg	Gln	Thr	Thr	Tyr	Thr	Thr	Arg	Ile	His	Leu
				885					890					895	
Val	Cys	Ser	Arg	Gly	Arg	Leu	Asn	Ser	His	Pro	Ile	Phe	Ser	Leu	Asn
			900					905					910		
Trp	Glu	Cys	Val	Val	Ser	Phe	Leu	Trp	Asn	Thr	Glu	Ala	Ala	Cys	Pro
		915					920					925			
Ile	Gln	Thr	Thr	Thr	Asp	Thr	Asp	Gln	Ala	Cys	Ser	Ile	Arg	Asp	Pro
	930					935					940				
Asn	Ser	Gly	Phe	Val	Phe	Asn	Leu	Asn	Pro	Leu	Asn	Ser	Ser	Gln	Gly
	945				950					955					960
Tyr	Asn	Val	Ser	Gly	Ile	Gly	Lys	Ile	Phe	Met	Phe	Asn	Val	Cys	Gly
				965					970					975	
Thr	Met	Pro	Val	Cys	Gly	Thr	Ile	Leu	Gly	Lys	Pro	Ala	Ser	Gly	Cys
			980					985					990		
Glu	Ala	Glu	Thr	Gln	Thr	Glu	Glu	Leu	Lys	Asn	Trp	Lys	Pro	Ala	Arg
		995					1000					1005			
Pro	Val	Gly	Ile	Glu	Lys	Ser	Leu	Gln	Leu	Ser	Thr	Glu	Gly	Phe	Ile

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1010 1015 1020
 Thr Leu Thr Tyr Lys Gly Pro Leu Ser Ala Lys Gly Thr Ala Asp Ala
 1025 1030 1035 1040
 Phe Ile Val Arg Phe Val Cys Asn Asp Asp Val Tyr Ser Gly Pro Leu
 1045 1050 1055
 Lys Phe Leu His Gln Asp Ile Asp Ser Gly Gln Gly Ile Arg Asn Thr
 1060 1065 1070
 Tyr Phe Glu Phe Glu Thr Ala Leu Ala Cys Val Pro Ser Pro Val Asp
 1075 1080 1085
 Cys Gln Val Thr Asp Leu Ala Gly Asn Glu Tyr Asp Leu Thr Gly Leu
 1090 1095 1100
 Ser Thr Val Arg Lys Pro Trp Thr Ala Val Asp Thr Ser Val Asp Gly
 1105 1110 1115 1120
 Arg Lys Arg Thr Phe Tyr Leu Ser Val Cys Asn Pro Leu Pro Tyr Ile
 1125 1130 1135
 Pro Gly Cys Gln Gly Asp Ala Val Gly Ser Cys Leu Val Ser Glu Gly
 1140 1145 1150
 Asn Ser Trp Asn Leu Gly Val Val Gln Met Ser Pro Gln Ala Ala Ala
 1155 1160 1165
 Asn Gly Ser Leu Ser Ile Met Tyr Val Asn Gly Asp Lys Cys Gly Asn
 1170 1175 1180
 Gln Arg Phe Ser Thr Arg Ile Thr Phe Glu Cys Ala Gln Ile Ser Gly
 1185 1190 1195 1200
 Ser Pro Ala Phe Gln Leu Gln Asp Gly Cys Glu Tyr Val Phe Ile Trp
 1205 1210 1215
 Arg Thr Val Glu Ala Cys Pro Val Val Arg Val Glu Gly Asp Asn Cys
 1220 1225 1230
 Glu Val Lys Asp Pro Arg His Gly Asn Leu Tyr Asp Leu Lys Pro Leu
 1235 1240 1245
 Gly Leu Asn Asp Thr Ile Val Ser Ala Gly Glu Tyr Thr Tyr Tyr Phe
 1250 1255 1260
 Arg Val Cys Gly Lys Leu Ser Ser Asp Val Cys Pro Thr Ser Asp Lys
 1265 1270 1275 1280
 Ser Lys Val Val Ser Ser Cys Gln Glu Lys Arg Glu Pro Gln Gly Phe
 1285 1290 1295
 His Lys Val Ala Gly Leu Leu Thr Gln Lys Leu Thr Tyr Glu Asn Gly
 1300 1305 1310
 Leu Leu Lys Met Asn Phe Thr Gly Gly Asp Thr Cys His Lys Val Tyr
 1315 1320 1325
 Gln Arg Ser Thr Ala Ile Phe Phe Tyr Cys Asp Arg Gly Thr Gln Arg
 1330 1335 1340
 Pro Val Phe Leu Lys Glu Thr Ser Asp Cys Ser Tyr Leu Phe Glu Trp
 1345 1350 1355 1360
 Arg Thr Gln Tyr Ala Cys Pro Pro Phe Asp Leu Thr Glu Cys Ser Phe
 1365 1370 1375
 Lys Asp Gly Ala Gly Asn Ser Phe Asp Leu Ser Ser Leu Ser Arg Tyr
 1380 1385 1390
 Ser Asp Asn Trp Glu Ala Ile Thr Gly Thr Gly Asp Pro Glu His Tyr
 1395 1400 1405
 Leu Ile Asn Val Cys Lys Ser Leu Ala Pro Gln Ala Gly Thr Glu Pro
 1410 1415 1420
 Cys Pro Pro Glu Ala Ala Ala Cys Leu Leu Gly Gly Ser Lys Pro Val
 1425 1430 1435 1440
 Asn Leu Gly Arg Val Arg Asp Gly Pro Gln Trp Arg Asp Gly Ile Ile
 1445 1450 1455
 Val Leu Lys Tyr Val Asp Gly Asp Leu Cys Pro Asp Gly Ile Arg Lys
 1460 1465 1470
 Lys Ser Thr Thr Ile Arg Phe Thr Cys Ser Glu Ser Gln Val Asn Ser
 1475 1480 1485
 Arg Pro Met Phe Ile Ser Ala Val Glu Asp Cys Glu Tyr Thr Phe Ala
 1490 1495 1500
 Trp Pro Thr Ala Thr Ala Cys Pro Met Lys Ser Asn Glu His Asp Asp
 1505 1510 1515 1520

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Cys Gln Val Thr Asn Pro Ser Thr Gly His Leu Phe Asp Leu Ser Ser
 1525 1530 1535
 Leu Ser Gly Arg Ala Gly Phe Thr Ala Ala Tyr Ser Glu Lys Gly Leu
 1540 1545 1550
 Val Tyr Met Ser Ile Cys Gly Glu Asn Glu Asn Cys Pro Pro Gly Val
 1555 1560 1565
 Gly Ala Cys Phe Gly Gln Thr Arg Ile Ser Val Gly Lys Ala Asn Lys
 1570 1575 1580
 Arg Leu Arg Tyr Val Asp Gln Val Leu Gln Leu Val Tyr Lys Asp Gly
 1585 1590 1595 1600
 Ser Pro Cys Pro Ser Lys Ser Gly Leu Ser Tyr Lys Ser Val Ile Ser
 1605 1610 1615
 Phe Val Cys Arg Pro Glu Ala Arg Pro Thr Asn Arg Pro Met Leu Ile
 1620 1625 1630
 Ser Leu Asp Lys Gln Thr Cys Thr Leu Phe Phe Ser Trp His Thr Pro
 1635 1640 1645
 Leu Ala Cys Glu Gln Ala Thr Glu Cys Ser Val Arg Asn Gly Ser Ser
 1650 1655 1660
 Ile Val Asp Leu Ser Pro Leu Ile His Arg Thr Gly Gly Tyr Glu Ala
 1665 1670 1675 1680
 Tyr Asp Glu Ser Glu Asp Asp Ala Ser Asp Thr Asn Pro Asp Phe Tyr
 1685 1690 1695
 Ile Asn Ile Cys Gln Pro Leu Asn Pro Met His Gly Val Pro Cys Pro
 1700 1705 1710
 Ala Gly Ala Ala Val Cys Lys Val Pro Ile Asp Gly Pro Pro Ile Asp
 1715 1720 1725
 Ile Gly Arg Val Ala Gly Pro Pro Ile Leu Asn Pro Ile Ala Asn Glu
 1730 1735 1740
 Ile Tyr Leu Asn Phe Glu Ser Ser Thr Pro Cys Leu Ala Asp Lys His
 1745 1750 1755 1760
 Phe Asn Tyr Thr Ser Leu Ile Ala Phe His Cys Lys Arg Gly Val Ser
 1765 1770 1775
 Met Gly Thr Pro Lys Leu Leu Arg Thr Ser Glu Cys Asp Phe Val Phe
 1780 1785 1790
 Glu Trp Glu Thr Pro Val Val Cys Pro Asp Glu Val Arg Met Asp Gly
 1795 1800 1805
 Cys Thr Leu Thr Asp Glu Gln Leu Leu Tyr Ser Phe Asn Leu Ser Ser
 1810 1815 1820
 Leu Ser Thr Ser Thr Phe Lys Val Thr Arg Asp Ser Arg Thr Tyr Ser
 1825 1830 1835 1840
 Val Gly Val Cys Thr Phe Ala Val Gly Pro Glu Gln Gly Gly Cys Lys
 1845 1850 1855
 Asp Gly Gly Val Cys Leu Leu Ser Gly Thr Lys Gly Ala Ser Phe Gly
 1860 1865 1870
 Arg Leu Gln Ser Met Lys Leu Asp Tyr Arg His Gln Asp Glu Ala Val
 1875 1880 1885
 Val Leu Ser Tyr Val Asn Gly Asp Arg Cys Pro Pro Glu Thr Asp Asp
 1890 1895 1900
 Gly Val Pro Cys Val Phe Pro Phe Ile Phe Asn Gly Lys Ser Tyr Glu
 1905 1910 1915 1920
 Glu Cys Ile Ile Glu Ser Arg Ala Lys Leu Trp Cys Ser Thr Thr Ala
 1925 1930 1935
 Asp Tyr Asp Arg Asp His Glu Trp Gly Phe Cys Arg His Ser Asn Ser
 1940 1945 1950
 Tyr Arg Thr Ser Ser Ile Ile Phe Lys Cys Asp Glu Asp Glu Asp Ile
 1955 1960 1965
 Gly Arg Pro Gln Val Phe Ser Glu Val Arg Gly Cys Asp Val Thr Phe
 1970 1975 1980
 Glu Trp Lys Thr Lys Val Val Cys Pro Pro Lys Lys Leu Glu Cys Lys
 1985 1990 1995 2000
 Phe Val Gln Lys His Lys Thr Tyr Asp Leu Arg Leu Leu Ser Ser Leu
 2005 2010 2015
 Thr Gly Ser Trp Ser Leu Val His Asn Gly Val Ser Tyr Tyr Ile Asn

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2020 2025 2030
 Leu Cys Gln Lys Ile Tyr Lys Gly Pro Leu Gly Cys Ser Glu Arg Ala
 2035 2040 2045
 Ser Ile Cys Arg Arg Thr Thr Thr Gly Asp Val Gln Val Leu Gly Leu
 2050 2055 2060
 Val His Thr Gln Lys Leu Gly Val Ile Gly Asp Lys Val Val Val Thr
 2065 2070 2075 2080
 Tyr Ser Lys Gly Tyr Pro Cys Gly Gly Asn Lys Thr Ala Ser Ser Val
 2085 2090 2095
 Ile Glu Leu Thr Cys Thr Lys Thr Val Gly Arg Pro Ala Phe Lys Arg
 2100 2105 2110
 Phe Asp Ile Asp Ser Cys Thr Tyr Tyr Phe Ser Trp Asp Ser Arg Ala
 2115 2120 2125
 Ala Cys Ala Val Lys Pro Gln Glu Val Gln Met Val Asn Gly Thr Ile
 2130 2135 2140
 Thr Asn Pro Ile Asn Gly Lys Ser Phe Ser Leu Gly Asp Ile Tyr Phe
 2145 2150 2155 2160
 Lys Leu Phe Arg Ala Ser Gly Asp Met Arg Thr Asn Gly Asp Asn Tyr
 2165 2170 2175
 Leu Tyr Glu Ile Gln Leu Ser Ser Ile Thr Ser Ser Arg Asn Pro Ala
 2180 2185 2190
 Cys Ser Gly Ala Asn Ile Cys Gln Val Lys Pro Asn Asp Gln His Phe
 2195 2200 2205
 Ser Arg Lys Val Gly Thr Ser Asp Lys Thr Lys Tyr Tyr Leu Gln Asp
 2210 2215 2220
 Gly Asp Leu Asp Val Val Phe Ala Ser Ser Ser Lys Cys Gly Lys Asp
 2225 2230 2235 2240
 Lys Thr Lys Ser Val Ser Ser Thr Ile Phe Phe His Cys Asp Pro Leu
 2245 2250 2255
 Val Glu Asp Gly Ile Pro Glu Phe Ser His Glu Thr Ala Asp Cys Gln
 2260 2265 2270
 Tyr Leu Phe Ser Trp Tyr Thr Ser Ala Val Cys Pro Leu Gly Val Gly
 2275 2280 2285
 Phe Asp Ser Glu Asn Pro Gly Asp Asp Gly Gln Met His Lys Gly Leu
 2290 2295 2300
 Ser Glu Arg Ser Gln Ala Val Gly Ala Val Leu Ser Leu Leu Leu Val
 2305 2310 2315 2320
 Ala Leu Thr Cys Cys Leu Leu Ala Leu Leu Tyr Lys Lys Glu Arg
 2325 2330 2335
 Arg Glu Thr Val Ile Ser Lys Leu Thr Thr Cys Cys Arg Arg Ser Ser
 2340 2345 2350
 Asn Val Ser Tyr Lys Tyr Ser Lys Val Asn Lys Glu Glu Glu Thr Asp
 2355 2360 2365
 Glu Asn Glu Thr Glu Trp Leu Met Glu Glu Ile Gln Leu Pro Pro Pro
 2370 2375 2380
 Arg Gln Gly Lys Glu Gly Gln Glu Asn Gly His Ile Thr Thr Lys Ser
 2385 2390 2395 2400
 Val Lys Ala Leu Ser Ser Leu His Gly Asp Asp Gln Asp Ser Glu Asp
 2405 2410 2415
 Glu Val Leu Thr Ile Pro Glu Val Lys Val His Ser Gly Arg Gly Ala
 2420 2425 2430
 Gly Ala Glu Ser Ser His Pro Val Arg Asn Ala Gln Ser Asn Ala Leu
 2435 2440 2445
 Gln Glu Arg Glu Asp Asp Arg Val Gly Leu Val Arg Gly Glu Lys Ala
 2450 2455 2460
 Arg Lys Gly Lys Ser Ser Ser Ala Gln Gln Lys Thr Val Ser Ser Thr
 2465 2470 2475 2480
 Lys Leu Val Ser Phe His Asp Asp Ser Asp Glu Asp Leu Leu His Ile
 2485 2490 2495

<210> 47
 <211> 561
 <212> PRT

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<213> Homo sapiens

<400> 47

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Leu Gly Phe Ser Leu Pro Pro His Leu Leu Phe Arg Pro Arg Leu Asp
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Leu Gln Phe Leu Gln Arg Phe Leu Gln Ile Leu Lys Val Leu Phe Pro
 20      25      30
Ser Trp Ser Ser Gln Asn Ala Leu Met Phe Leu Thr Leu Leu Cys Leu
 35      40      45
Thr Leu Leu Gly Asp Phe Asp Gln Phe Thr Cys Asn Leu Leu Tyr Val
 50      55      60
Ser Trp Arg Lys Asp Leu Thr Glu His Leu His Arg Leu Tyr Phe Arg
 65      70      75      80
Gly Arg Ala Tyr Tyr Thr Leu Asn Val Leu Arg Asp Asp Ile Asp Asn
 85      90      95
Pro Asp Gln Arg Ile Ser Gln Asp Val Glu Arg Phe Cys Arg Gln Leu
100      105      110
Ser Ser Met Ala Ser Lys Leu Ile Ile Ser Pro Phe Thr Leu Val Tyr
115      120      125
Tyr Thr Tyr Gln Cys Phe Gln Ser Thr Gly Trp Leu Gly Pro Val Ser
130      135      140
Ile Phe Gly Tyr Phe Ile Leu Gly Thr Val Val Asn Lys Thr Leu Met
145      150      155      160
Gly Pro Ile Val Met Lys Leu Val His Gln Glu Lys Leu Glu Gly Asp
165      170      175
Phe Arg Phe Lys His Met Gln Ile Arg Val Asn Ala Glu Pro Ala Ala
180      185      190
Phe Tyr Arg Ala Gly His Val Glu His Met Arg Thr Asp Arg Arg Leu
195      200      205
Gln Arg Leu Leu Gln Thr Gln Arg Glu Leu Met Ser Lys Glu Leu Trp
210      215      220
Leu Tyr Ile Gly Ile Asn Thr Phe Asp Tyr Leu Gly Ser Ile Leu Ser
225      230      235
Tyr Val Val Ile Ala Ile Pro Ile Phe Ser Gly Val Tyr Gly Asp Leu
240      245      250      255
Ser Pro Ala Glu Leu Ser Thr Leu Val Ser Lys Asn Ala Phe Val Cys
260      265      270
Ile Tyr Leu Ile Ser Cys Phe Thr Gln Leu Ile Asp Leu Ser Thr Thr
275      280      285
Leu Ser Asp Val Ala Gly Tyr Thr His Arg Ile Gly Gln Leu Arg Glu
290      295      300
Thr Leu Leu Asp Met Ser Leu Lys Ser Gln Asp Cys Glu Ile Leu Gly
305      310      315      320
Glu Ser Glu Trp Gly Leu Asp Thr Pro Pro Gly Trp Pro Ala Ala Glu
325      330      335
Pro Ala Asp Thr Ala Phe Leu Leu Glu Arg Val Ser Ile Ser Ala Pro
340      345      350
Ser Ser Asp Lys Pro Leu Ile Lys Asp Leu Ser Leu Lys Ile Ser Glu
355      360      365
Gly Gln Ser Leu Leu Ile Thr Gly Asn Thr Gly Thr Gly Lys Thr Ser
370      375      380
Leu Leu Arg Val Leu Gly Gly Leu Trp Thr Ser Thr Arg Gly Ser Val
385      390      395      400
Gln Met Leu Thr Asp Phe Gly Pro His Gly Val Leu Phe Leu Pro Gln
405      410      415
Lys Pro Phe Phe Thr Asp Gly Thr Leu Arg Glu Gln Val Ile Tyr Pro
420      425      430
Leu Lys Glu Val Tyr Pro Asp Ser Gly Ser Ala Asp Asp Glu Arg Ile
435      440      445
Leu Arg Phe Leu Glu Leu Ala Gly Leu Ser Asn Leu Val Ala Arg Thr
450      455      460
Glu Gly Leu Asp Gln Gln Val Asp Trp Asn Trp Tyr Asp Val Leu Ser
465      470      475      480

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Pro Gly Glu Met Gln Arg Leu Ser Phe Ala Arg Leu Phe Tyr Leu Gln
 485 490 495
 Pro Lys Tyr Ala Val Leu Asp Glu Ala Thr Ser Ala Leu Thr Glu Glu
 500 505 510
 Val Glu Ser Glu Leu Tyr Arg Ile Gly Gln Gln Leu Gly Met Thr Phe
 515 520 525
 Ile Ser Val Gly His Arg Gln Ser Leu Glu Lys Phe His Ser Leu Val
 530 535 540
 Leu Lys Leu Cys Gly Gly Gly Arg Trp Glu Leu Met Arg Ile Lys Val
 545 550 555 560
 Glu

<210> 48
 <211> 421
 <212> PRT
 <213> Homo sapiens

<400> 48

Met Ala Ala Thr Leu Ile Leu Glu Pro Ala Gly Arg Cys Cys Trp Asp
 1 5 10 15
 Glu Pro Val Arg Ile Ala Val Arg Gly Leu Ala Pro Glu Gln Pro Val
 20 25 30
 Thr Leu Arg Ala Ser Leu Arg Asp Glu Lys Gly Ala Leu Phe Gln Ala
 35 40 45
 His Ala Arg Tyr Arg Ala Asp Thr Leu Gly Glu Leu Asp Leu Glu Arg
 50 55 60
 Ala Pro Ala Leu Gly Gly Ser Phe Ala Gly Leu Glu Pro Met Gly Leu
 65 70 75 80
 Leu Trp Ala Leu Glu Pro Glu Lys Pro Leu Val Arg Leu Val Lys Arg
 85 90 95
 Asp Val Arg Thr Pro Leu Ala Val Glu Leu Glu Val Leu Asp Gly His
 100 105 110
 Asp Pro Asp Pro Gly Arg Leu Leu Cys Arg Val Arg His Glu Arg Tyr
 115 120 125
 Phe Leu Pro Pro Gly Val Arg Arg Glu Pro Val Arg Ala Gly Arg Val
 130 135 140
 Arg Gly Thr Leu Phe Leu Pro Pro Glu Pro Gly Pro Phe Pro Gly Ile
 145 150 155 160
 Val Asp Met Phe Gly Thr Gly Gly Gly Leu Leu Glu Tyr Arg Ala Ser
 165 170 175
 Leu Leu Ala Gly Lys Gly Phe Ala Val Met Ala Leu Ala Tyr Tyr Asn
 180 185 190
 Tyr Glu Asp Leu Pro Lys Thr Met Glu Thr Leu His Leu Glu Tyr Phe
 195 200 205
 Glu Glu Ala Val Asn Tyr Leu Leu Ser His Pro Glu Val Lys Gly Pro
 210 215 220
 Gly Val Gly Leu Leu Gly Ile Ser Lys Gly Gly Glu Leu Cys Leu Ser
 225 230 235 240
 Met Ala Ser Phe Leu Lys Gly Ile Thr Ala Val Val Ile Asn Gly
 245 250 255
 Ser Val Ala Asn Val Gly Gly Thr Leu Arg Tyr Lys Gly Glu Thr Leu
 260 265 270
 Pro Pro Val Gly Val Asn Arg Asn Arg Ile Lys Val Thr Lys Asp Gly
 275 280 285
 Tyr Ala Asp Ile Val Asp Val Leu Asn Ser Pro Leu Gly Pro Asp
 290 295 300
 Gln Lys Ser Phe Ile Pro Val Glu Arg Ala Glu Ser Thr Phe Leu Phe
 305 310 315 320
 Leu Val Gly Gln Asp Asp His Asn Trp Lys Ser Glu Phe Tyr Ala Asn
 325 330 335
 Glu Ala Cys Lys Arg Leu Gln Ala His Gly Arg Arg Lys Pro Gln Ile
 340 345 350

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Ile Cys Tyr Pro Glu Thr Gly His Tyr Ile Glu Pro Tyr Phe Pro
 355 360 365
 Leu Cys Arg Ala Ser Leu His Ala Leu Val Gly Ser Pro Ile Ile Trp
 370 375 380
 Gly Gly Glu Pro Arg Ala His Ala Met Ala Gln Val Asp Ala Trp Lys
 385 390 395 400
 Gln Leu Gln Thr Phe His Lys His Leu Gly Gly His Glu Gly Thr
 405 410 415
 Ile Pro Ser Lys Val
 420

<210> 49

<211> 785

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (196)...(198)

<223> Xaa = Any Amino Acid

<400> 49

Met Pro Lys Ala Pro Lys Gln Gln Pro Pro Glu Pro Glu Trp Ile Gly
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 20 25 30
 Asn Glu Gln Arg Gly Lys Arg Glu Glu Thr Ala Arg Phe Phe Glu Glu
 35 40 45
 Leu Ala Val Glu Asp Lys Gln Ala Gly Glu Glu Glu Lys Val Leu Lys
 50 55 60
 Glu Lys Glu Gln Gln Gln Gln Gln Gln Gln Gln Gln Lys Lys
 65 70 75 80
 Lys Arg Asp Thr Arg Lys Gly Arg Arg Lys Lys Asp Val Asp Asp Asp
 85 90 95
 Gly Glu Glu Lys Glu Leu Met Glu Arg Leu Lys Lys Leu Ser Val Pro
 100 105 110
 Thr Ser Asp Glu Glu Asp Glu Val Pro Ala Pro Lys Pro Arg Gly Gly
 115 120 125
 Lys Lys Thr Lys Gly Gly Asn Val Phe Ala Ala Leu Ile Gln Asp Gln
 130 135 140
 Ser Glu Glu Glu Glu Glu Glu Glu Lys His Pro Pro Lys Pro Ala Lys
 145 150 155 160
 Pro Glu Lys Asn Arg Ile Asn Lys Ala Val Ser Glu Glu Gln Gln Pro
 165 170 175
 Ala Leu Lys Gly Lys Lys Gly Lys Glu Glu Lys Ser Lys Gly Lys Ala
 180 185 190
 Lys Val Arg Xaa Xaa Xaa Phe Phe Leu Pro Ser Gln Met Glu Tyr Glu
 195 200 205
 Arg Gln Val Ala Ser Leu Lys Ala Ala Asn Ala Ala Glu Asn Asp Phe
 210 215 220
 Ser Val Ser Gln Ala Glu Met Ser Ser Arg Gln Ala Met Leu Glu Asn
 225 230 235 240
 Ala Ser Asp Ile Lys Leu Glu Lys Phe Ser Ile Ser Ala His Gly Lys
 245 250 255
 Glu Leu Phe Val Asn Ala Asp Leu Tyr Ile Val Ala Gly Arg Arg Tyr
 260 265 270
 Gly Leu Val Gly Pro Asn Gly Lys Gly Lys Thr Thr Leu Leu Lys His
 275 280 285
 Ile Ala Asn Arg Ala Leu Ser Ile Pro Pro Asn Ile Asp Val Leu Leu
 290 295 300
 Cys Glu Gln Glu Val Val Ala Asp Glu Thr Pro Ala Val Gln Ala Val
 305 310 315 320
 Leu Arg Ala Asp Thr Lys Arg Leu Lys Leu Leu Glu Glu Glu Arg Arg

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Leu Gln Gly Gln 325 Leu Glu Gln Gly Asp 330 Thr Ala Ala Glu 335
 340 345 350
 Glu Lys Val Tyr Glu Glu Leu Arg Ala Thr Gly Ala Ala Ala Glu
 355 360 365
 Ala Lys Ala Arg Arg Ile Leu Ala Gly Leu Gly Phe Asp Pro Glu Met
 370 375 380
 Gln Asn Arg Pro Thr Gln Lys Phe Ser Gly Gly Trp Arg Met Arg Val
 385 390 395 400
 Ser Leu Ala Arg Ala Leu Phe Met Glu Pro Thr Leu Leu Met Leu Asp
 405 410 415
 Glu Pro Thr Asn His Leu Asp Leu Asn Ala Val Ile Trp Leu Asn Asn
 420 425 430
 Tyr Leu Gln Gly Trp Arg Lys Thr Leu Leu Ile Val Ser His Asp Gln
 435 440 445
 Gly Phe Leu Asp Asp Val Cys Thr Asp Ile Ile His Leu Asp Ala Gln
 450 455 460
 Arg Leu His Tyr Tyr Arg Gly Asn Tyr Met Thr Phe Lys Lys Met Tyr
 465 470 475 480
 Gln Gln Lys Gln Lys Glu Leu Leu Lys Gln Tyr Glu Lys Gln Glu Lys
 485 490 495
 Lys Leu Lys Glu Leu Lys Ala Gly Gly Lys Ser Thr Lys Gln Ala Glu
 500 505 510
 Lys Gln Thr Lys Glu Ala Leu Thr Arg Lys Gln Gln Lys Cys Arg Arg
 515 520 525
 Lys Asn Gln Asp Glu Glu Ser Gln Glu Ala Pro Glu Leu Leu Lys Arg
 530 535 540
 Pro Lys Glu Tyr Thr Val Arg Phe Thr Phe Pro Asp Pro Pro Pro Leu
 545 550 555 560
 Ser Pro Pro Val Leu Gly Leu His Gly Val Thr Phe Gly Tyr Gln Gly
 565 570 575
 Gln Lys Pro Leu Phe Lys Asn Leu Asp Phe Gly Ile Asp Met Asp Ser
 580 585 590
 Arg Ile Cys Ile Val Gly Pro Asn Gly Val Gly Lys Ser Thr Leu Leu
 595 600 605
 Leu Leu Leu Thr Gly Lys Leu Thr Pro Thr His Gly Glu Met Arg Lys
 610 615 620
 Asn His Arg Leu Lys Ile Gly Phe Phe Asn Gln Gln Tyr Ala Glu Gln
 625 630 635 640
 Leu Arg Met Glu Glu Thr Pro Thr Glu Tyr Leu Gln Arg Gly Phe Asn
 645 650 655
 Leu Pro Tyr Gln Asp Ala Arg Lys Cys Leu Gly Arg Phe Gly Leu Glu
 660 665 670
 Ser His Ala His Thr Ile Gln Ile Cys Lys Leu Ser Gly Gly Gln Lys
 675 680 685
 Ala Arg Val Val Phe Ala Glu Leu Ala Cys Arg Glu Pro Asp Val Leu
 690 695 700
 Ile Leu Asp Glu Pro Thr Asn Asn Leu Asp Ile Glu Ser Ile Asp Ala
 705 710 715 720
 Leu Gly Glu Ala Ile Asn Glu Tyr Lys Gly Ala Val Ile Val Val Ser
 725 730 735
 His Asp Ala Arg Leu Ile Thr Glu Thr Asn Cys Gln Leu Trp Val Val
 740 745 750
 Glu Glu Gln Ser Val Ser Gln Ile Asp Gly Asp Phe Glu Asp Tyr Lys
 755 760 765
 Arg Glu Val Leu Glu Ala Leu Gly Glu Val Met Val Ser Arg Pro Arg
 770 775 780
 Glu
 785

<210> 50
 <211> 405
 <212> PRT

GC773-2-seqlist

<213> Homo sapiens

<400> 50

Lys Met Leu Ser Ser Phe Leu Ser Pro Gln Asn Gly Thr Trp Ala Asp
 1 5 10 15
 Thr Phe Ser Leu Leu Leu Ala Leu Ala Val Ala Leu Tyr Leu Gly Tyr
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 Tyr Trp Ala Cys Val Leu Gln Arg Pro Arg Leu Val Ala Gly Pro Gln
 35 40 45
 Phe Leu Ala Phe Leu Glu Pro His Cys Ser Ile Thr Thr Glu Thr Phe
 50 55 60
 Tyr Pro Thr Leu Trp Cys Phe Glu Gly Arg Leu Gln Ser Ile Phe Gln
 65 70 75 80
 Val Leu Leu Gln Ser Gln Pro Leu Val Leu Tyr Gln Ser Asp Ile Leu
 85 90 95
 Gln Thr Pro Asp Gly Gly Gln Leu Leu Leu Asp Trp Ala Lys Gln Pro
 100 105 110
 Asp Ser Ser Gln Asp Pro Asp Pro Thr Thr Gln Pro Ile Val Leu Leu
 115 120 125
 Leu Pro Gly Ile Thr Gly Ser Ser Gln Asp Thr Tyr Val Leu His Leu
 130 135 140
 Val Asn Gln Ala Leu Arg Asp Gly Tyr Gln Ala Val Val Phe Asn Asn
 145 150 155 160
 Arg Gly Cys Arg Gly Glu Glu Leu Arg Thr His Arg Ala Phe Cys Ala
 165 170 175
 Ser Asn Thr Glu Asp Leu Glu Thr Val Asn His Ile Lys His Arg
 180 185 190
 Tyr Pro Gln Ala Pro Leu Leu Ala Val Gly Ile Ser Phe Gly Gly Ile
 195 200 205
 Leu Val Leu Asn His Leu Ala Gln Ala Arg Gln Ala Ala Gly Leu Val
 210 215 220
 Ala Ala Leu Thr Leu Ser Ala Cys Trp Asp Ser Phe Glu Thr Thr Arg
 225 230 235 240
 Ser Leu Glu Thr Pro Leu Asn Ser Leu Leu Phe Asn Gln Pro Leu Thr
 245 250 255
 Ala Gly Leu Cys Gln Leu Val Glu Arg Asn Arg Lys Val Ile Glu Lys
 260 265 270
 Val Val Asp Ile Asp Phe Val Leu Gln Ala Arg Thr Ile Arg Gln Phe
 275 280 285
 Asp Glu Arg Tyr Thr Ser Val Ala Phe Gly Tyr Gln Asp Cys Val Thr
 290 295 300
 Tyr Tyr Lys Ala Ala Ser Pro Arg Thr Lys Ile Asp Ala Ile Arg Ile
 305 310 315 320
 Pro Val Leu Tyr Leu Ser Ala Ala Asp Asp Pro Phe Ser Pro Val Cys
 325 330 335
 Ala Leu Pro Ile Gln Ala Ala Gln His Ser Pro Tyr Val Ala Leu Leu
 340 345 350
 Ile Thr Ala Arg Gly Gly His Ile Gly Phe Leu Glu Gly Leu Leu Pro
 355 360 365
 Trp Gln His Trp Tyr Met Ser Arg Leu Leu His Gln Tyr Ala Lys Ala
 370 375 380
 Ile Phe Gln Asp Pro Glu Gly Leu Pro Asp Leu Arg Ala Leu Leu Pro
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 Ser Glu Asp Arg Asn 405

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<400> 51

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<210> 52

<211> 284

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<212> PRT

<213> Homo sapiens

<400> 52

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Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser His Val Asn
 20      25      30
Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn Asp Thr Ser
 35      40      45
Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu Pro Leu Gly
 50      55      60
Lys Ala Ser Phe His Ile Pro Gln Val Gln Val Arg Asp Glu Gly Gln
 65      70      75      80
Tyr Gln Cys Ile Ile Ile Tyr Gly Val Ala Trp Asp Tyr Lys Tyr Leu
 85      90      95
Thr Leu Lys Val Lys Ala Ser Tyr Arg Lys Ile Asn Thr His Ile Leu
 100      105      110
Lys Val Pro Glu Thr Asp Glu Val Glu Leu Thr Cys Gln Ala Thr Gly
 115      120      125
Tyr Pro Leu Ala Glu Val Ser Trp Pro Asn Val Ser Val Pro Ala Asn
 130      135      140
Thr Ser His Ser Arg Thr Pro Glu Gly Leu Tyr Gln Val Thr Ser Val
 145      150      155      160
Leu Arg Leu Lys Pro Pro Gly Arg Asn Phe Ser Cys Val Phe Trp
 165      170      175
Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp Leu Gln Ser
 180      185      190
Gln Met Glu Pro Arg Thr His Pro Thr Trp Leu Leu His Ile Phe Ile
 195      200      205
Pro Phe Cys Ile Ile Ala Phe Ile Phe Ile Ala Thr Val Ile Ala Leu
 210      215      220
Arg Lys Gln Leu Cys Gln Lys Leu Tyr Ser Ser Lys Asp Val Ser Ile
 225      230      235      240
His Cys Ala Lys Val Thr Leu Leu Val Pro Ile Pro Thr Gln Thr Thr
 245      250      255
Val Leu Gln Asp Tyr Ser Ser Tyr Gly Ser Pro Thr His Ala Leu Ser
 260      265      270
Leu Val Pro Lys Gln Asp Pro Tyr Gly Leu Met Arg
 275      280

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<210> 53

<211> 442

<212> PRT

<213> Homo sapiens

<400> 53

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Met Ala Arg Gly Tyr Gly Ala Thr Val Ser Leu Val Leu Leu Gly Leu
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Gly Leu Ala Leu Ala Val Ile Val Leu Ala Val Val Leu Ser Arg His
 20      25      30
Gln Ala Pro Cys Gly Pro Gln Ala Phe Ala His Ala Ala Val Ala Ala
 35      40      45
Asp Ser Lys Val Cys Ser Asp Ile Gly Arg Ala Ile Leu Gln Gln Gln
 50      55      60
Gly Ser Pro Val Asp Ala Thr Ile Ala Ala Leu Val Cys Thr Ser Val
 65      70      75      80
Val Asn Pro Gln Ser Met Gly Leu Gly Gly Gly Val Ile Phe Thr Ile
 85      90      95
Tyr Asn Val Thr Thr Gly Ala Gln Trp Ile Gly Val Pro Gly Glu Leu
 100      105      110
Arg Gly Tyr Ala Glu Ala His Arg Arg His Gly Arg Leu Pro Trp Ala
 115      120      125

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Gln Leu Phe Gln Pro Thr Ile Ala Leu Leu Arg Gly Gly His Val Val
 130 135 140
 Ala Pro Val Leu Ser Arg Phe Leu His Asn Ser Ile Leu Arg Pro Ser
 145 150 155 160
 Leu Gln Ala Ser Thr Leu Arg Gln Leu Phe Phe Asn Gly Thr Glu Pro
 165 170 175
 Leu Arg Pro Gln Asp Pro Leu Pro Trp Pro Ala Leu Ala Thr Thr Leu
 180 185 190
 Glu Thr Val Ala Thr Glu Gly Val Glu Val Phe Tyr Thr Gly Arg Leu
 195 200 205
 Gly Gln Met Leu Val Glu Asp Ile Ala Lys Glu Gly Ser Gln Leu Thr
 210 215 220
 Leu Gln Asp Leu Ala Lys Phe Gln Pro Glu Val Val Asp Ala Leu Glu
 225 230 235 240
 Val Pro Leu Gly Asp Tyr Thr Leu Tyr Ser Pro Pro Pro Pro Ala Gly
 245 250 255
 Gly Ala Ile Leu Ser Phe Ile Leu Asn Val Leu Arg Gly Phe Asn Phe
 260 265 270
 Ser Thr Glu Ser Met Ala Arg Pro Glu Gly Arg Val Asn Val Tyr His
 275 280 285
 His Leu Val Glu Thr Leu Lys Phe Ala Lys Gly Gln Arg Trp Arg Leu
 290 295 300
 Gly Asp Pro Arg Ser His Pro Lys Leu Gln Asn Ala Ser Arg Asp Leu
 305 310 315 320
 Leu Gly Glu Thr Leu Ala Gln Leu Ile Arg Gln Gln Ile Asp Gly Arg
 325 330 335
 Gly Asp His Gln Leu Ser His Tyr Ser Leu Ala Glu Ala Trp Gly His
 340 345 350
 Gly Thr Gly Thr Ser His Val Ser Val Leu Gly Glu Asp Gly Ser Ala
 355 360 365
 Val Ala Ala Thr Ser Thr Ile Asn Thr Pro Phe Gly Ala Met Val Tyr
 370 375 380
 Ser Pro Arg Thr Gly Ile Ile Leu Asn Asn Glu Leu Leu Asp Leu Cys
 385 390 395 400
 Glu Arg Cys Pro Arg Gly Ser Gly Thr Thr Pro Ser Pro Val Glu Thr
 405 410 415
 Gly Trp Val Glu Leu Pro Glu Gly Ala Gly Pro Gln Phe Gln Ala Ser
 420 425 430
 Val Pro His Pro Pro Trp Cys Pro Pro Ser
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<211> 1047

<212> PRT

<213> Homo sapiens

<400> 54

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 Leu Tyr Ser Asn Trp Arg Lys Gly Glu Asp Glu Tyr Ala Asn Val Asp
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 Ala Ile Val Val Ser Val Gly Val Asp Glu Glu Ile Val Tyr Ala Lys
 35 40 45
 Ser Thr Ala Leu Gln Thr Trp Leu Phe Gly Tyr Glu Leu Thr Asp Thr
 50 55 60
 Ile Met Val Phe Cys Asp Lys Ile Ile Phe Met Ala Ser Lys Lys
 65 70 75 80
 Lys Val Glu Phe Leu Lys Gln Ile Ala Asn Thr Lys Gly Asn Glu Asn
 85 90 95
 Ala Asn Gly Ala Pro Ala Ile Thr Leu Leu Ile Arg Glu Lys Asn Glu
 100 105 110
 Ser Asn Lys Ser Ser Phe Asp Lys Met Ile Glu Ala Ile Lys Glu Ser
 115 120 125

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Lys	Asn	Gly	Lys	Lys	Ile	Gly	Val	Phe	Ser	Lys	Asp	Lys	Phe	Pro	Gly
130						135					140				
Glu	Phe	Met	Lys	Ser	Trp	Asn	Asp	Cys	Leu	Asn	Lys	Glu	Gly	Phe	Asp
145					150					155					160
Lys	Ile	Asp	Ile	Ser	Ala	Val	Val	Ala	Tyr	Thr	Ile	Ala	Val	Lys	Glu
				165					170					175	
Asp	Gly	Glu	Leu	Asn	Leu	Met	Lys	Lys	Ala	Ala	Ser	Ile	Thr	Ser	Glu
			180					185					190		
Val	Phe	Asn	Lys	Phe	Phe	Lys	Glu	Arg	Val	Met	Glu	Ile	Val	Asp	Ala
		195					200					205			
Asp	Glu	Lys	Val	Arg	His	Ser	Lys	Leu	Ala	Glu	Ser	Val	Glu	Lys	Ala
	210					215					220				
Ile	Glu	Glu	Lys	Lys	Tyr	Leu	Ala	Gly	Ala	Asp	Pro	Ser	Thr	Val	Glu
225					230					235					240
Met	Cys	Tyr	Pro	Pro	Ile	Ile	Gln	Ser	Gly	Gly	Asn	Tyr	Asn	Leu	Lys
				245					250					255	
Phe	Ser	Val	Val	Ser	Asp	Lys	Asn	His	Met	His	Phe	Gly	Ala	Ile	Thr
			260					265					270		
Cys	Ala	Met	Gly	Ile	Arg	Phe	Lys	Ser	Tyr	Cys	Ser	Asn	Leu	Val	Arg
		275					280					285			
Thr	Leu	Met	Val	Asp	Pro	Ser	Gln	Glu	Val	Gln	Glu	Asn	Tyr	Asn	Phe
	290					295					300				
Leu	Leu	Gln	Leu	Gln	Glu	Glu	Leu	Leu	Lys	Glu	Leu	Arg	His	Gly	Val
305					310					315					320
Lys	Ile	Cys	Asp	Val	Tyr	Asn	Ala	Val	Met	Asp	Val	Val	Lys	Lys	Gln
				325					330					335	
Lys	Pro	Glu	Leu	Leu	Asn	Lys	Ile	Thr	Lys	Asn	Leu	Gly	Phe	Gly	Met
			340					345					350		
Gly	Ile	Glu	Phe	Arg	Glu	Gly	Ser	Leu	Val	Ile	Asn	Ser	Lys	Asn	Gln
		355					360					365			
Tyr	Lys	Leu	Lys	Lys	Gly	Met	Val	Phe	Ser	Ile	Asn	Leu	Gly	Phe	Ser
	370					375					380				
Asp	Leu	Thr	Asn	Lys	Glu	Gly	Lys	Lys	Pro	Glu	Glu	Lys	Thr	Tyr	Ala
385					390					395					400
Leu	Phe	Ile	Gly	Asp	Thr	Val	Leu	Val	Asp	Glu	Asp	Gly	Pro	Ala	Thr
				405					410					415	
Val	Leu	Thr	Ser	Val	Lys	Lys	Lys	Val	Lys	Asn	Val	Gly	Ile	Phe	Leu
			420					425					430		
Lys	Asn	Glu	Asp	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Lys	Asp	Glu	Ala	Glu
		435					440					445			
Asp	Leu	Leu	Gly	Arg	Gly	Ser	Arg	Ala	Ala	Leu	Leu	Thr	Glu	Arg	Thr
	450					455					460				
Arg	Asn	Glu	Met	Thr	Ala	Glu	Glu	Lys	Arg	Arg	Ala	His	Gln	Lys	Glu
465					470					475					480
Leu	Ala	Ala	Gln	Leu	Asn	Glu	Glu	Ala	Lys	Arg	Arg	Leu	Thr	Glu	Gln
				485					490					495	
Lys	Gly	Glu	Gln	Gln	Ile	Gln	Lys	Ala	Arg	Lys	Ser	Asn	Val	Ser	Tyr
			500					505					510		
Lys	Asn	Pro	Ser	Leu	Met	Pro	Lys	Glu	Pro	His	Ile	Arg	Glu	Met	Lys
		515					520					525			
Ile	Tyr	Ile	Asp	Lys	Lys	Tyr	Glu	Thr	Val	Ile	Met	Pro	Val	Phe	Gly
	530					535					540				
Ile	Ala	Thr	Pro	Phe	His	Ile	Ala	Thr	Ile	Lys	Asn	Ile	Ser	Met	Ser
545					550					555					560
Val	Glu	Gly	Asp	Tyr	Thr	Tyr	Leu	Arg	Ile	Asn	Phe	Tyr	Cys	Pro	Gly
				565					570					575	
Ser	Ala	Leu	Gly	Arg	Asn	Glu	Gly	Asn	Ile	Phe	Pro	Asn	Pro	Glu	Ala
			580					585					590		
Thr	Phe	Val	Lys	Glu	Ile	Thr	Tyr	Arg	Ala	Ser	Asn	Ile	Lys	Ala	Pro
	595						600					605			
Gly	Glu	Gln	Thr	Val	Pro	Ala	Leu	Asn	Leu	Gln	Asn	Ala	Phe	Arg	Ile
	610					615					620				
Ile	Lys	Glu	Val	Gln	Lys	Arg	Tyr	Lys	Thr	Arg	Glu	Ala	Glu	Glu	Lys

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625	Glu	Lys	Glu	Gly	Ile	630	Val	Lys	Gln	Asp	Ser	635	Leu	Val	Ile	Asn	Leu	640	Asn
					645							650					655		
Arg	Ser	Asn	Pro	Lys	Leu	Lys	Asp	Leu	Tyr	Ile	Arg	Pro	Asn	Ile	Ala				
			660																
Gln	Lys	Arg	Met	Gln	Gly	Ser	Leu	Glu	Ala	His	Val	Asn	Gly	Phe	Arg				
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Phe	Thr	Ser	Val	Arg	Gly	Asp	Lys	Val	Asp	Ile	Leu	Tyr	Asn	Asn	Ile				
	690																		
Lys	His	Ala	Leu	Phe	Gln	Pro	Cys	Asp	Gly	Glu	Met	Ile	Ile	Val	Leu				
705					710														
His	Phe	His	Leu	Lys	Asn	Ala	Ile	Met	Phe	Gly	Lys	Lys	Arg	His	Thr				
				725															
Asp	Val	Gln	Phe	Tyr	Thr	Glu	Val	Gly	Glu	Ile	Thr	Thr	Asp	Leu	Gly				
			740																
Lys	His	Gln	His	Met	His	Asp	Arg	Asp	Asp	Leu	Tyr	Ala	Glu	Gln	Met				
		755																	
Glu	Arg	Glu	Met	Arg	His	Lys	Leu	Lys	Thr	Ala	Phe	Lys	Asn	Phe	Ile				
	770																		
Glu	Lys	Val	Glu	Ala	Leu	Thr	Lys	Glu	Glu	Leu	Phe	Glu	Val	Pro					
785					790														
Phe	Arg	Asp	Leu	Gly	Phe	Asn	Gly	Ala	Pro	Tyr	Arg	Ser	Thr	Cys	Leu				
				805															
Leu	Gln	Pro	Thr	Ser	Ser	Ala	Leu	Val	Asn	Ala	Thr	Glu	Trp	Pro	Pro				
			820																
Phe	Val	Val	Thr	Leu	Asp	Glu	Val	Glu	Leu	Ile	His	Phe	Glu	Arg	Val				
		835																	
Gln	Phe	His	Leu	Lys	Asn	Phe	Asp	Met	Val	Ile	Val	Tyr	Lys	Asp	Tyr				
	850																		
Ser	Lys	Lys	Val	Thr	Met	Ile	Asn	Ala	Ile	Pro	Val	Ala	Ser	Leu	Asp				
865					870														
Pro	Ile	Lys	Glu	Trp	Leu	Asn	Ser	Cys	Asp	Leu	Lys	Tyr	Thr	Glu	Gly				
				885															
Val	Gln	Ser	Leu	Asn	Trp	Thr	Lys	Ile	Met	Lys	Thr	Ile	Val	Asp	Asp				
			900																
Pro	Glu	Gly	Phe	Phe	Glu	Gln	Gly	Gly	Trp	Ser	Phe	Leu	Glu	Pro	Glu				
		915																	
Gly	Glu	Gly	Ser	Asp	Ala	Glu	Gly	Asp	Ser	Glu	Ser	Glu	Ile	Glu					
		930																	
Asp	Glu	Thr	Phe	Asn	Pro	Ser	Glu	Asp	Asp	Tyr	Glu	Glu	Glu	Glu	Glu				
945					950														
Asp	Ser	Asp	Glu	Asp	Tyr	Ser	Ser	Glu	Ala	Glu	Glu	Ser	Asp	Tyr	Ser				
				965															
Lys	Glu	Ser	Leu	Gly	Ser	Glu	Glu	Glu	Ser	Gly	Lys	Asp	Trp	Asp	Glu				
			980																
Leu	Glu	Glu	Glu	Ala	Arg	Lys	Ala	Asp	Arg	Glu	Ser	Arg	Tyr	Glu	Glu				
		995																	
Glu	Glu	Glu	Gln	Ser	Arg	Ser	Met	Ser	Arg	Lys	Arg	Lys	Ala	Ser	Val				
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His	Ser	Ser	Gly	Arg	Gly	Ser	Asn	Arg	Gly	Ser	Arg	His	Ser	Ser	Ala				
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Pro	Pro	Lys	Lys	Lys	Arg	Lys													
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<210> 55

<211> 1530

<212> PRT

<213> Homo sapiens

<400> 55

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Pro	Cys	Phe	20	Gln	Asn	Ser	Leu	Leu	25	Ala	Trp	Val	Pro	Cys	30	Ile	Tyr	Leu
Trp	Val	Ala	35	Leu	Pro	Cys	Tyr	Leu	40	Leu	Tyr	Leu	Arg	His	45	His	Cys	Arg
Gly	Tyr	Ile	50	Ile	Leu	Ser	His	Leu	55	Ser	Lys	Leu	Lys	Met	60	Val	Leu	Gly
65	Val	Leu	Leu	Trp	Cys	Val	Ser	Trp	Ala	Asp	Leu	Phe	Tyr	Ser	75	Phe	His	80
				85	Gly	Arg	Ala	Pro	Ala	Pro	Val	Phe	Phe	Val	90	Thr	Pro	
Gly	Leu	Val	100	Gly	Val	Thr	Met	Leu	105	Leu	Ala	Thr	Leu	Leu	110	Ile	Gln	Tyr
Leu	Val	Val	115	Gln	Gly	Val	Gln	Ser	120	Ser	Gly	Val	Leu	Ile	125	Ile	Phe	Trp
Glu	Arg	Leu	130	Val	Val	Cys	Ala	Ile	135	Val	Pro	Phe	Arg	Ser	140	Lys	Ile	Leu
Phe	Leu	Cys	145	Ala	Glu	Gly	Glu	Ile	150	Ser	Asp	Pro	Phe	Arg	155	Phe	Thr	Thr
Leu	Ala	Lys	165	Ala	Phe	Ala	Leu	Val	170	Ser	Ala	Leu	Ile	Leu	175	Ala	Cys	
Phe	Tyr	Ile	180	Lys	Pro	Pro	Phe	Phe	185	Ser	Ala	Lys	Asn	Val	190	Asp	Pro	Asn
Phe	Arg	Glu	195	Thr	Ser	Ala	Gly	Phe	200	Leu	Ser	Arg	Leu	Phe	205	Phe	Trp	
Pro	Tyr	Pro	210	Lys	Met	Ala	Ile	Tyr	215	Gly	Tyr	Arg	His	Pro	220	Leu	Glu	Glu
Trp	Phe	Thr	225	Trp	Ser	Leu	Lys	Glu	230	Glu	Asp	Arg	Ser	Gln	235	Met	Val	Val
Lys	Asp	Leu	245	Leu	Ala	Trp	Arg	Lys	250	Gln	Glu	Lys	Gln	Thr	255	Ala	Arg	
Gln	Gln	Leu	260	Gly	Ala	Ala	Pro	Gly	265	Asn	Ala	Ser	Gly	270	Glu	Asp	Glu	
His	Lys	Ala	275	Ser	Ala	Arg	Pro	Arg	280	Pro	Arg	Lys	Pro	285	Ser	Phe	Leu	Lys
Val	Leu	Leu	290	Gly	Ala	Arg	Pro	Arg	295	Ser	Ser	Phe	Leu	300	Ile	Ser	Ala	Cys
Ala	Leu	Leu	305	Thr	Phe	Gly	Ser	Ser	310	Leu	Ser	Phe	Leu	315	Pro	Gln	Leu	Phe
Lys	Leu	Ile	325	Arg	Phe	Ile	Ser	Asn	330	Pro	Met	Ala	Pro	335	Ser	Trp	Trp	Gly
Ile	Leu	Ile	340	Ala	Gly	Leu	Met	Phe	345	Leu	Cys	Ser	Met	350	Met	Gln	Ser	Leu
Phe	Leu	Val	355	His	Tyr	Tyr	His	Tyr	360	Ile	Phe	Val	Thr	365	Gly	Val	Lys	Phe
Ile	Leu	Gln	370	Ile	Met	Gly	Val	Ile	375	Tyr	Arg	Lys	Ala	380	Leu	Val	Ile	Thr
Arg	Thr	Gly	385	Ala	Arg	Ala	Ser	Thr	390	Val	Gly	Glu	Ile	395	Val	Asn	Leu	Met
Asn	Ser	Val	405	Gln	Arg	Phe	Met	Asp	410	Leu	Ala	Pro	Phe	415	Leu	Asn	Leu	
Ser	Val	Asp	420	Ala	Pro	Leu	Gln	Ile	425	Leu	Ala	Ile	Tyr	430	Phe	Leu	Trp	
Leu	Trp	Ser	435	Gly	Pro	Ser	Val	Leu	440	Ala	Gly	Val	Ala	445	Phe	Met	Val	Leu
Gln	Asn	Leu	450	Pro	Leu	Asn	Gly	Ala	455	Val	Ala	Val	Lys	460	Met	Arg	Ala	Phe
Leu	Ile	Pro	465	Met	Lys	Leu	Lys	Asp	470	Ser	Arg	Ile	Lys	475	Leu	Met	Ser	Gln
Val	Lys	Gln	485	Ile	Lys	Val	Leu	Lys	490	Leu	Tyr	Ala	Trp	495	Glu	Pro	Ser	
Ile	Leu	Asn	500	Gln	Val	Glu	Gly	Ile	505	Arg	Gln	Gly	Glu	510	Gln	Leu	Leu	
Phe	Leu	Lys	515					520						525				

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Arg	Thr	Ala	Ala	Tyr	Leu	His	Thr	Thr	Thr	Thr	Phe	Thr	Trp	Met	Cys
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Ser	Pro	Phe	Leu	Val	Thr	Leu	Ile	Thr	Leu	Trp	Val	Tyr	Val	Tyr	Val
545					550					555					560
Asp	Pro	Asn	Asn	Val	Leu	Asp	Ala	Glu	Lys	Ala	Phe	Val	Ser	Val	Ser
				565					570					575	
Leu	Phe	Asn	Ile	Leu	Arg	Leu	Pro	Leu	Asn	Met	Leu	Pro	Gln	Leu	Ile
			580					585					590		
Ser	Asn	Leu	Thr	Gln	Ala	Ser	Val	Ser	Leu	Lys	Arg	Ile	Gln	Gln	Phe
		595					600					605			
Leu	Ser	Gln	Glu	Glu	Leu	Asp	Pro	Gln	Ser	Val	Glu	Arg	Lys	Thr	Ile
	610					615					620				
Ser	Pro	Gly	Tyr	Ala	Ile	Thr	Ile	His	Ser	Gly	Thr	Phe	Thr	Trp	Ala
625					630					635					640
Gln	Asp	Leu	Pro	Pro	Thr	Leu	His	Ser	Leu	Asp	Ile	Gln	Val	Pro	Lys
				645					650					655	
Gly	Ala	Leu	Val	Ala	Val	Val	Gly	Pro	Val	Gly	Cys	Gly	Lys	Ser	Ser
			660					665					670		
Leu	Val	Ser	Ala	Leu	Leu	Gly	Glu	Met	Glu	Lys	Leu	Glu	Gly	Lys	Val
		675					680					685			
His	Met	Lys	Gly	Ser	Val	Ala	Tyr	Val	Pro	Gln	Gln	Ala	Trp	Ile	Gln
	690					695					700				
Asn	Cys	Thr	Leu	Gln	Glu	Asn	Val	Leu	Phe	Gly	Lys	Ala	Leu	Asn	Pro
705					710					715					720
Lys	Arg	Tyr	Gln	Gln	Thr	Leu	Glu	Ala	Cys	Ala	Leu	Leu	Ala	Asp	Leu
				725					730					735	
Glu	Met	Leu	Pro	Gly	Gly	Asp	Gln	Thr	Glu	Ile	Gly	Glu	Lys	Gly	Ile
			740					745					750		
Asn	Leu	Ser	Gly	Gly	Gln	Arg	Gln	Arg	Val	Ser	Leu	Ala	Arg	Ala	Val
		755					760					765			
Tyr	Ser	Asp	Ala	Asp	Ile	Phe	Leu	Leu	Asp	Asp	Pro	Leu	Ser	Ala	Val
	770					775					780				
Asp	Ser	His	Val	Ala	Lys	His	Ile	Phe	Asp	His	Val	Ile	Gly	Pro	Glu
785					790					795					800
Gly	Val	Leu	Ala	Gly	Lys	Thr	Arg	Val	Leu	Val	Thr	His	Gly	Ile	Ser
				805					810					815	
Phe	Leu	Pro	Gln	Thr	Asp	Phe	Ile	Ile	Val	Leu	Ala	Asp	Gly	Gln	Val
			820					825					830		
Ser	Glu	Met	Gly	Pro	Tyr	Pro	Ala	Leu	Leu	Gln	Arg	Asn	Gly	Ser	Phe
		835					840					845			
Ala	Asn	Phe	Leu	Cys	Asn	Tyr	Ala	Pro	Asp	Glu	Asp	Gln	Gly	His	Leu
	850					855					860				
Glu	Asp	Ser	Trp	Thr	Ala	Leu	Glu	Gly	Ala	Glu	Asp	Lys	Glu	Ala	Leu
865					870					875					880
Leu	Ile	Glu	Asp	Thr	Leu	Ser	Asn	His	Thr	Asp	Leu	Thr	Asp	Asn	Asp
				885					890					895	
Pro	Val	Thr	Tyr	Val	Val	Gln	Lys	Gln	Phe	Met	Arg	Gln	Leu	Ser	Ala
			900					905					910		
Leu	Ser	Ser	Asp	Gly	Glu	Gly	Gln	Gly	Arg	Pro	Val	Pro	Arg	Arg	His
		915					920					925			
Leu	Gly	Pro	Ser	Glu	Lys	Val	Gln	Val	Thr	Glu	Ala	Lys	Ala	Asp	Gly
	930					935					940				
Ala	Leu	Thr	Gln	Glu	Glu	Lys	Ala	Ala	Ile	Gly	Thr	Val	Glu	Leu	Ser
945					950					955					960
Val	Phe	Trp	Asp	Tyr	Ala	Lys	Ala	Val	Gly	Leu	Cys	Thr	Thr	Leu	Ala
				965					970					975	
Ile	Cys	Leu	Leu	Tyr	Val	Gly	Gln	Ser	Ala	Ala	Ala	Ile	Gly	Ala	Asn
			980					985					990		
Val	Trp	Leu	Ser	Ala	Trp	Thr	Asn	Asp	Ala	Met	Ala	Asp	Ser	Arg	Gln
		995					1000					1005			
Asn	Asn	Thr	Ser	Leu	Arg	Leu	Gly	Val	Tyr	Ala	Ala	Leu	Gly	Ile	Leu
	1010					1015				1020					
Gln	Gly	Phe	Leu	Val	Met	Leu	Ala	Ala	Met	Ala	Met	Ala	Ala	Gly	Gly

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1025 1030 1035 1040
 Ile Gln Ala Ala Arg Val Leu His Gln Ala Leu Leu His Asn Lys Ile
 1045 1050 1055
 Arg Ser Pro Gln Ser Phe Phe Asp Thr Thr Pro Ser Gly Arg Ile Leu
 1060 1065 1070
 Asn Cys Phe Ser Lys Asp Ile Tyr Val Val Asp Glu Val Leu Ala Pro
 1075 1080 1085
 Val Ile Leu Met Leu Leu Asn Ser Phe Phe Asn Ala Ile Ser Thr Leu
 1090 1095 1100
 Val Val Ile Met Ala Ser Thr Pro Leu Phe Thr Val Val Ile Leu Pro
 1105 1110 1115 1120
 Leu Ala Val Leu Tyr Thr Leu Val Gln Arg Phe Tyr Ala Ala Thr Ser
 1125 1130 1135
 Arg Gln Leu Lys Arg Leu Glu Ser Val Ser Arg Ser Pro Ile Tyr Ser
 1140 1145 1150
 His Phe Ser Glu Thr Val Thr Gly Ala Ser Val Ile Arg Ala Tyr Asn
 1155 1160 1165
 Arg Ser Arg Asp Phe Glu Ile Ile Ser Asp Thr Lys Val Asp Ala Asn
 1170 1175 1180
 Gln Arg Ser Cys Tyr Pro Tyr Ile Ile Ser Asn Arg Trp Leu Ser Ile
 1185 1190 1195 1200
 Gly Val Glu Phe Val Gly Asn Cys Val Val Leu Phe Ala Ala Leu Phe
 1205 1210 1215
 Ala Val Ile Gly Arg Ser Ser Leu Asn Pro Gly Leu Val Gly Leu Ser
 1220 1225 1230
 Val Ser Tyr Ser Leu Gln Val Thr Phe Ala Leu Asn Trp Met Ile Arg
 1235 1240 1245
 Met Met Ser Asp Leu Glu Ser Asn Ile Val Ala Val Glu Arg Val Lys
 1250 1255 1260
 Glu Tyr Ser Lys Thr Glu Thr Glu Ala Pro Trp Val Val Glu Gly Ser
 1265 1270 1275 1280
 Arg Pro Pro Glu Gly Trp Pro Pro Arg Gly Glu Val Glu Phe Arg Asn
 1285 1290 1295
 Tyr Ser Val Arg Tyr Arg Pro Gly Leu Asp Leu Val Leu Arg Asp Leu
 1300 1305 1310
 Ser Leu His Val His Gly Gly Glu Lys Val Gly Ile Val Gly Arg Thr
 1315 1320 1325
 Gly Ala Gly Lys Ser Ser Met Thr Leu Cys Leu Phe Arg Ile Leu Glu
 1330 1335 1340
 Ala Ala Lys Gly Glu Ile Arg Ile Asp Gly Leu Asn Val Ala Asp Ile
 1345 1350 1355 1360
 Gly Leu His Asp Leu Arg Ser Gln Leu Thr Ile Ile Pro Gln Asp Pro
 1365 1370 1375
 Ile Leu Phe Ser Gly Thr Leu Arg Met Asn Leu Asp Pro Phe Gly Ser
 1380 1385 1390
 Tyr Ser Glu Glu Asp Ile Trp Trp Ala Leu Glu Leu Ser His Leu His
 1395 1400 1405
 Thr Phe Val Ser Ser Gln Pro Ala Gly Leu Asp Phe Gln Cys Ser Glu
 1410 1415 1420
 Gly Gly Glu Asn Leu Ser Val Gly Gln Arg Gln Leu Val Cys Leu Ala
 1425 1430 1435 1440
 Arg Ala Leu Leu Arg Lys Ser Arg Ile Leu Val Leu Asp Glu Ala Thr
 1445 1450 1455
 Ala Ala Ile Asp Leu Glu Thr Asp Asn Leu Ile Gln Ala Thr Ile Arg
 1460 1465 1470
 Thr Gln Phe Asp Thr Cys Thr Val Leu Thr Ile Ala His Arg Leu Asn
 1475 1480 1485
 Thr Ile Met Asp Tyr Thr Arg Val Leu Val Leu Asp Lys Gly Val Val
 1490 1495 1500
 Ala Glu Phe Asp Ser Pro Ala Asn Leu Ile Ala Ala Arg Gly Ile Phe
 1505 1510 1515 1520
 Tyr Gly Met Ala Arg Asp Ala Gly Leu Ala
 1525 1530

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<210> 56
 <211> 533
 <212> PRT
 <213> Homo sapiens

<400> 56

Pro	Tyr	Cys	Ser	Leu	Pro	Arg	Ala	Pro	Leu	His	Gly	Phe	Ile	Leu	Gly
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Gln	Thr	Ser	Thr	Gln	Pro	Gly	Gly	Ser	Ile	His	Phe	Gly	Cys	Asn	Ala
			20					25					30		
Gly	Tyr	Arg	Leu	Val	Gly	His	Ser	Met	Ala	Ile	Cys	Thr	Arg	His	Pro
		35					40					45			
Gln	Gly	Tyr	His	Leu	Trp	Ser	Glu	Ala	Ile	Pro	Leu	Cys	Gln	Ala	Leu
	50					55					60				
Ser	Cys	Gly	Leu	Pro	Glu	Ala	Pro	Lys	Asn	Gly	Met	Val	Phe	Gly	Lys
65					70				75					80	
Glu	Tyr	Thr	Val	Gly	Thr	Lys	Ala	Met	Tyr	Ser	Cys	Ser	Glu	Gly	Tyr
				85					90					95	
His	Leu	Gln	Ala	Gly	Ala	Glu	Ala	Thr	Ala	Glu	Cys	Leu	Asp	Thr	Gly
			100					105					110		
Leu	Trp	Ser	Asn	Arg	Asn	Val	Pro	Pro	Gln	Cys	Val	Pro	Val	Thr	Cys
		115					120					125			
Pro	Asp	Val	Ser	Ser	Ile	Ser	Val	Glu	His	Gly	Arg	Trp	Arg	Leu	Ile
	130					135					140				
Phe	Glu	Thr	Gln	Tyr	Gln	Phe	Gln	Ala	Gln	Leu	Met	Leu	Ile	Cys	Asp
145					150					155					160
Pro	Gly	Tyr	Tyr	Tyr	Thr	Gly	Gln	Arg	Val	Ile	Arg	Cys	Gln	Ala	Asn
				165					170					175	
Gly	Lys	Trp	Ser	Leu	Gly	Asp	Ser	Thr	Pro	Thr	Cys	Arg	Ile	Leu	Ala
			180					185					190		
Lys	Gln	Lys	Gln	Pro	Cys	Pro	Ser	Trp	Gly	Trp	Leu	Thr	Glu	His	
		195					200				205				
Leu	Val	Ile	Ile	Leu	Val	Ile	Ser	Cys	Gly	Glu	Leu	Pro	Ile	Pro	Pro
	210					215					220				
Asn	Gly	His	Arg	Ile	Gly	Thr	Leu	Ser	Val	Tyr	Gly	Ala	Thr	Ala	Ile
225					230					235					240
Phe	Ser	Cys	Asn	Ser	Gly	Tyr	Thr	Leu	Val	Gly	Ser	Arg	Val	Arg	Glu
				245					250					255	
Cys	Met	Ala	Asn	Gly	Leu	Trp	Ser	Gly	Ser	Glu	Val	Arg	Cys	Leu	Ala
			260					265					270		
Thr	Gln	Thr	Lys	Leu	His	Ser	Ile	Phe	Tyr	Lys	Leu	Leu	Phe	Asp	Val
		275					280					285			
Leu	Ser	Pro	Ser	Leu	Thr	Lys	Ala	Gly	His	Cys	Gly	Thr	Pro	Glu	
	290				295					300					
Pro	Ile	Val	Asn	Gly	His	Ile	Asn	Gly	Glu	Asn	Tyr	Ser	Tyr	Arg	Gly
305					310					315					320
Ser	Val	Val	Tyr	Gln	Cys	Asn	Ala	Gly	Phe	Arg	Leu	Ile	Gly	Met	Ser
				325					330					335	
Val	Arg	Ile	Cys	Gln	Gln	Asp	His	His	Trp	Ser	Gly	Lys	Thr	Pro	Phe
			340					345					350		
Cys	Val	Pro	Ile	Thr	Cys	Gly	His	Pro	Gly	Asn	Pro	Val	Asn	Gly	Leu
		355					360					365			
Thr	Gln	Gly	Asn	Gln	Phe	Asn	Leu	Asn	Asp	Val	Val	Lys	Phe	Val	Cys
	370					375					380				
Asn	Pro	Gly	Tyr	Met	Ala	Glu	Gly	Ala	Ala	Arg	Ser	Gln	Cys	Leu	Ala
385					390					395					400
Ser	Gly	Gln	Trp	Ser	Asp	Met	Leu	Pro	Thr	Cys	Arg	Ile	Ile	Asn	Cys
				405					410					415	
Thr	Asp	Pro	Gly	His	Gln	Glu	Asn	Ser	Val	Arg	Gln	Val	His	Ala	Ser
			420					425					430		
Gly	Pro	His	Arg	Phe	Ser	Phe	Gly	Thr	Val	Ser	Tyr	Arg	Cys	Asn	
		435					440				445				

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His Gly Phe Tyr Leu Leu Gly Thr Pro Val Leu Ser Cys Gln Gly Asp
 450 455 460
 Gly Thr Trp Asp Arg Pro Arg Pro Gln Cys Leu Leu Val Ser Cys Gly
 465 470 475 480
 His Pro Gly Ser Pro Pro His Ser Gln Met Ser Gly Asp Ser Tyr Thr
 485 490 495
 Val Gly Ala Val Val Arg Tyr Ser Cys Ile Gly Lys Arg Thr Leu Val
 500 505 510
 Gly Asn Ser Thr Arg Met Cys Gly Leu Asp Gly His Trp Thr Gly Ser
 515 520 525
 Leu Pro His Cys Ser
 530

<210> 57

<211> 1584

<212> PRT

<213> Homo sapiens

<400> 57

Pro Leu Ala Phe Cys Gly Ser Glu Asn His Ser Ala Ala Tyr Arg Val
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 Asp Gln Gly Val Leu Asn Asn Gly Cys Phe Val Asp Ala Leu Asn Val
 20 25 30
 Val Pro His Val Phe Leu Leu Phe Ile Thr Phe Pro Ile Leu Phe Ile
 35 40 45
 Gly Trp Gly Ser Gln Ser Ser Lys Val His Ile His Ser Thr Trp
 50 55 60
 Leu His Phe Pro Gly His Asn Leu Arg Trp Ile Leu Thr Phe Met Leu
 65 70 75 80
 Leu Phe Val Leu Val Cys Glu Ile Ala Glu Gly Ile Leu Ser Asp Gly
 85 90 95
 Val Thr Glu Ser His His Leu His Leu Tyr Met Pro Ala Gly Met Ala
 100 105 110
 Phe Met Ala Ala Val Thr Ser Val Val Tyr Tyr His Asn Ile Glu Thr
 115 120 125
 Ser Asn Phe Pro Lys Leu Leu Ile Ala Leu Leu Val Tyr Trp Thr Leu
 130 135 140
 Ala Phe Ile Thr Lys Thr Ile Lys Phe Val Lys Phe Leu Asp His Ala
 145 150 155 160
 Ile Gly Phe Ser Gln Leu Arg Phe Cys Leu Thr Gly Leu Leu Val Ile
 165 170 175
 Leu Tyr Gly Met Leu Leu Leu Val Glu Val Asn Val Ile Arg Val Arg
 180 185 190
 Arg Tyr Ile Phe Phe Lys Thr Pro Arg Glu Val Lys Pro Glu Asp
 195 200 205
 Leu Gln Asp Leu Gly Val Arg Phe Leu Gln Pro Phe Val Asn Leu Leu
 210 215 220
 Ser Lys Gly Thr Tyr Trp Trp Met Asn Ala Phe Ile Lys Thr Ala His
 225 230 235 240
 Lys Lys Pro Ile Asp Leu Arg Ala Ile Gly Lys Leu Pro Ile Ala Met
 245 250 255
 Arg Ala Leu Thr Asn Tyr Gln Arg Leu Cys Glu Ala Phe Asp Ala Gln
 260 265 270
 Val Arg Lys Asp Ile Gln Gly Thr Gln Gly Ala Arg Ala Ile Trp Gln
 275 280 285
 Ala Leu Ser His Ala Phe Gly Arg Arg Leu Val Leu Ser Ser Thr Phe
 290 295 300
 Arg Ile Leu Ala Asp Leu Leu Gly Phe Ala Gly Pro Leu Cys Ile Phe
 305 310 315 320
 Gly Ile Val Asp His Leu Gly Lys Glu Asn Asp Val Phe Gln Pro Lys
 325 330 335
 Thr Gln Phe Leu Gly Val Tyr Phe Val Ser Ser Gln Glu Phe Leu Ala
 340 345 350

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Asn	Ala	Tyr	Val	Leu	Ala	Val	Leu	Leu	Phe	Leu	Ala	Leu	Leu	Gln
		355					360					365		
Arg	Thr	Phe	Leu	Gln	Ala	Ser	Tyr	Tyr	Val	Ala	Ile	Glu	Thr	Gly
	370					375					380			Ile
Asn	Leu	Arg	Gly	Ala	Ile	Gln	Thr	Lys	Ile	Tyr	Asn	Lys	Ile	Met
385					390					395				400
Leu	Ser	Thr	Ser	Asn	Leu	Ser	Met	Gly	Glu	Met	Thr	Ala	Gly	Gln
				405					410					415
Cys	Asn	Leu	Val	Ala	Ile	Asp	Thr	Asn	Gln	Leu	Met	Trp	Phe	Phe
			420					425					430	Phe
Leu	Cys	Pro	Asn	Leu	Trp	Ala	Met	Pro	Val	Gln	Ile	Ile	Val	Gly
		435					440					445		Val
Ile	Leu	Leu	Tyr	Tyr	Ile	Leu	Gly	Val	Ser	Ala	Leu	Ile	Gly	Ala
	450					455					460			Ala
Val	Ile	Ile	Leu	Leu	Ala	Pro	Val	Gln	Tyr	Phe	Val	Ala	Thr	Lys
465					470					475				480
Ser	Gln	Ala	Gln	Arg	Ser	Thr	Leu	Glu	Tyr	Ser	Asn	Glu	Arg	Leu
				485					490					495
Gln	Thr	Asn	Glu	Met	Leu	Arg	Gly	Ile	Lys	Leu	Leu	Lys	Leu	Tyr
			500					505					510	Ala
Trp	Glu	Asn	Ile	Phe	Arg	Thr	Arg	Val	Glu	Thr	Thr	Arg	Arg	Lys
		515					520					525		Glu
Met	Thr	Ser	Leu	Arg	Ala	Phe	Ala	Ile	Tyr	Thr	Ser	Ile	Ser	Ile
	530					535					540			Phe
Met	Asn	Thr	Ala	Ile	Pro	Ile	Ala	Ala	Val	Leu	Ile	Thr	Phe	Val
545					550					555				560
His	Val	Ser	Phe	Phe	Lys	Glu	Ala	Asp	Phe	Ser	Pro	Ser	Val	Ala
				565					570					575
Ala	Ser	Leu	Ser	Leu	Phe	His	Ile	Leu	Val	Thr	Pro	Leu	Phe	Leu
			580					585					590	
Ser	Ser	Val	Val	Arg	Ser	Thr	Val	Lys	Ala	Leu	Val	Ser	Val	Gln
		595					600					605		Lys
Leu	Ser	Glu	Phe	Leu	Ser	Ser	Ala	Glu	Ile	Arg	Glu	Glu	Gln	Cys
	610					615					620			Ala
Pro	His	Glu	Pro	Thr	Pro	Gln	Gly	Pro	Ala	Ser	Lys	Tyr	Gln	Ala
625					630					635				640
Pro	Leu	Arg	Val	Val	Asn	Arg	Lys	Arg	Pro	Ala	Arg	Glu	Asp	Cys
				645					650					655
Gly	Leu	Thr	Gly	Pro	Leu	Gln	Ser	Leu	Val	Pro	Ser	Ala	Asp	Gly
			660					665					670	Asp
Ala	Asp	Asn	Cys	Cys	Val	Gln	Ile	Met	Gly	Gly	Tyr	Phe	Thr	Trp
		675					680					685		Thr
Pro	Asp	Gly	Ile	Pro	Thr	Leu	Ser	Asn	Ile	Thr	Ile	Arg	Ile	Pro
	690					695					700			Arg
Gly	Gln	Leu	Thr	Met	Ile	Val	Gly	Gln	Val	Gly	Cys	Gly	Lys	Ser
705					710					715				720
Leu	Leu	Leu	Ala	Ala	Leu	Gly	Glu	Met	Gln	Lys	Val	Ser	Gly	Ala
			725						730				735	Val
Phe	Trp	Ser	Ser	Met	Pro	Phe	Leu	Pro	Cys	Cys	Ser	Pro	Glu	Arg
			740					745					750	Glu
Thr	Ala	Thr	Asp	Leu	Asp	Ile	Arg	Lys	Arg	Gly	Pro	Val	Ala	Tyr
		755					760					765		Ala
Ser	Gln	Lys	Pro	Trp	Leu	Leu	Asn	Ala	Thr	Val	Glu	Glu	Asn	Ile
	770					775					780			Ile
Phe	Glu	Ser	Pro	Phe	Asn	Lys	Gln	Arg	Tyr	Lys	Met	Val	Ile	Glu
785					790					795				800
Cys	Ser	Leu	Gln	Pro	Asp	Ile	Asp	Ile	Leu	Pro	His	Gly	Asp	Gln
				805					810					815
Gln	Ile	Gly	Glu	Arg	Gly	Ile	Asn	Leu	Ser	Gly	Gly	Gln	Arg	Gln
			820					825					830	Arg
Ile	Ser	Val	Ala	Arg	Ala	Leu	Tyr	Gln	His	Ala	Asn	Val	Phe	Leu
		835					840					845		
Asp	Asp	Pro	Phe	Ser	Ala	Leu	Asp	Ile	His	Leu	Ser	Asp	His	Leu
														Met

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850					855					860							
Gln	Ala	Gly	Ile	Leu	Glu	Leu	Leu	Arg	Asp	Asp	Lys	Arg	Thr	Val	Val		
865					870					875							880
Leu	Val	Thr	His	Lys	Leu	Gln	Tyr	Leu	Pro	His	Ala	Asp	Trp	Ile	Ile		
				885					890								895
Ala	Met	Lys	Asp	Gly	Thr	Ile	Gln	Arg	Glu	Gly	Thr	Leu	Lys	Asp	Phe		
			900					905					910				
Gln	Arg	Ser	Glu	Cys	Gln	Leu	Phe	Glu	His	Trp	Lys	Thr	Leu	Met	Asn		
		915					920					925					
Arg	Gln	Asp	Gln	Glu	Leu	Glu	Lys	Glu	Thr	Val	Thr	Glu	Arg	Lys	Ala		
	930					935					940						
Thr	Glu	Pro	Pro	Gln	Gly	Leu	Ser	Arg	Ala	Met	Ser	Ser	Arg	Asp	Gly		
945					950					955					960		
Leu	Leu	Gln	Asp	Glu	Glu	Glu	Glu	Glu	Glu	Ala	Ala	Glu	Ser	Glu			
				965					970				975				
Glu	Asp	Asp	Asn	Leu	Ser	Ser	Met	Leu	His	Gln	Arg	Ala	Glu	Ile	Pro		
			980					985					990				
Trp	Arg	Ala	Cys	Ala	Lys	Tyr	Leu	Ser	Ser	Ala	Gly	Ile	Leu	Leu	Leu		
		995					1000					1005					
Ser	Leu	Val	Phe	Ser	Gln	Leu	Leu	Lys	His	Met	Val	Leu	Val	Ala			
	1010				1015					1020							
Ile	Asp	Tyr	Trp	Leu	Ala	Lys	Trp	Thr	Asp	Ser	Ala	Leu	Thr	Leu	Thr		
1025					1030				1035						1040		
Pro	Ala	Ala	Arg	Asn	Cys	Ser	Leu	Ser	Gln	Glu	Cys	Thr	Leu	Asp	Gln		
				1045					1050					1055			
Thr	Val	Tyr	Ala	Met	Val	Phe	Thr	Val	Leu	Cys	Ser	Leu	Gly	Ile	Val		
			1060					1065					1070				
Leu	Cys	Leu	Val	Thr	Ser	Val	Thr	Val	Glu	Trp	Thr	Gly	Leu	Lys	Val		
		1075					1080					1085					
Ala	Lys	Arg	Leu	His	Arg	Ser	Leu	Leu	Asn	Arg	Ile	Ile	Leu	Ala	Pro		
	1090					1095					1100						
Met	Arg	Phe	Phe	Glu	Thr	Pro	Leu	Gly	Ser	Ile	Leu	Asn	Arg	Phe			
1105					1110				1115					1120			
Ser	Ser	Asp	Cys	Asn	Thr	Ile	Asp	Gln	His	Ile	Pro	Ser	Thr	Leu	Glu		
				1125					1130					1135			
Cys	Leu	Ser	Arg	Ser	Thr	Leu	Leu	Cys	Val	Ser	Ala	Leu	Ala	Val	Ile		
			1140					1145					1150				
Ser	Tyr	Val	Thr	Pro	Val	Phe	Leu	Val	Ala	Leu	Leu	Pro	Leu	Ala	Ile		
		1155					1160					1165					
Val	Cys	Tyr	Phe	Ile	Gln	Lys	Tyr	Phe	Arg	Val	Ala	Ser	Arg	Asp	Leu		
	1170					1175					1180						
Gln	Gln	Leu	Asp	Asp	Thr	Thr	Gln	Leu	Pro	Leu	Leu	Ser	His	Phe	Ala		
1185					1190				1195						1200		
Glu	Thr	Val	Glu	Gly	Leu	Thr	Thr	Ile	Arg	Ala	Phe	Arg	Tyr	Glu	Ala		
				1205					1210					1215			
Arg	Phe	Gln	Gln	Lys	Leu	Leu	Glu	Tyr	Thr	Asp	Ser	Asn	Asn	Ile	Ala		
				1220				1225					1230				
Ser	Leu	Phe	Leu	Thr	Ala	Ala	Asn	Arg	Trp	Leu	Glu	Val	Arg	Met	Ala		
		1235					1240					1245					
Thr	Pro	Leu	Pro	Pro	Gln	Glu	Tyr	Ile	Gly	Ala	Cys	Val	Val	Leu	Ile		
	1250					1255					1260						
Ala	Ala	Val	Thr	Ser	Ile	Ser	Asn	Ser	Leu	His	Arg	Glu	Leu	Ser	Ala		
1265					1270				1275						1280		
Gly	Leu	Val	Gly	Leu	Gly	Leu	Thr	Tyr	Ala	Leu	Met	Val	Ser	Asn	Tyr		
				1285					1290					1295			
Leu	Asn	Trp	Met	Val	Arg	Asn	Leu	Ala	Asp	Met	Glu	Leu	Gln	Leu	Gly		
			1300					1305					1310				
Ala	Val	Lys	Arg	Ile	His	Gly	Leu	Leu	Lys	Thr	Glu	Ala	Glu	Ser	Tyr		
		1315					1320					1325					
Glu	Gly	Leu	Leu	Ala	Pro	Ser	Leu	Ile	Pro	Lys	Asn	Trp	Pro	Asp	Gln		
	1330					1335					1340						
Gly	Lys	Ile	Gln	Ile	Gln	Asn	Leu	Ser	Val	Arg	Tyr	Asp	Ser	Ser	Leu		
1345					1350					1355					1360		

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Lys Pro Val Leu Lys His Val Asn Ala Leu Ile Ala Pro Gly Gln Lys
 1365 1370 1375
 Ile Gly Ile Cys Gly Arg Thr Gly Ser Gly Lys Ser Ser Phe Ser Leu
 1380 1385 1390
 Ala Phe Phe Arg Met Val Asp Thr Phe Glu Gly His Ile Ile Ile Asp
 1395 1400 1405
 Gly Ile Asp Ile Ala Lys Leu Pro Leu His Thr Leu Arg Ser Arg Leu
 1410 1415 1420
 Ser Ile Ile Leu Gln Asp Pro Val Leu Phe Ser Gly Thr Ile Arg Phe
 1425 1430 1435 1440
 Asn Leu Asp Pro Glu Arg Lys Cys Ser Asp Ser Thr Leu Trp Glu Ala
 1445 1450 1455
 Leu Glu Ile Ala Gln Leu Lys Leu Val Val Lys Ala Leu Pro Gly Gly
 1460 1465 1470
 Leu Asp Ala Ile Ile Thr Glu Gly Gly Glu Asn Phe Ser Gln Gly Gln
 1475 1480 1485
 Arg Gln Leu Phe Cys Leu Ala Arg Ala Phe Val Arg Lys Thr Ser Ile
 1490 1495 1500
 Phe Ile Met Asp Glu Ala Thr Ala Ser Ile Asp Met Ala Thr Glu Asn
 1505 1510 1515 1520
 Ile Leu Gln Lys Val Val Met Thr Ala Phe Ala Asp Arg Thr Val Val
 1525 1530 1535
 Thr Ile Ala His Arg Val His Thr Ile Leu Ser Ala Asp Leu Val Ile
 1540 1545 1550
 Val Leu Lys Arg Gly Ala Ile Leu Glu Phe Asp Lys Pro Glu Lys Leu
 1555 1560 1565
 Leu Ser Arg Lys Asp Ser Val Phe Ala Ser Phe Val Arg Ala Asp Lys
 1570 1575 1580

<210> 58

<211> 274

<212> PRT

<213> Homo sapiens

<400> 58

Met Pro Arg Asn Leu Leu Tyr Ser Leu Leu Ser Ser His Leu Ser Pro
 1 5 10 15
 His Phe Ser Thr Ser Val Thr Ser Ala Lys Val Ala Val Asn Gly Val
 20 25 30
 Gln Leu His Tyr Gln Gln Thr Gly Glu Gly Asp His Ala Val Leu Leu
 35 40 45
 Leu Pro Gly Met Leu Gly Ser Gly Glu Thr Asp Phe Gly Pro Gln Leu
 50 55 60
 Lys Asn Leu Asn Lys Lys Leu Phe Thr Val Val Ala Trp Asp Pro Arg
 65 70 75 80
 Gly Tyr Gly His Ser Arg Pro Pro Asp Arg Asp Phe Pro Ala Asp Phe
 85 90 95
 Phe Glu Arg Asp Ala Lys Asp Ala Val Asp Leu Met Lys Ala Leu Lys
 100 105 110
 Phe Lys Lys Val Ser Leu Leu Gly Trp Ser Asp Gly Gly Ile Thr Ala
 115 120 125
 Leu Ile Ala Ala Ala Lys Tyr Pro Ser Tyr Ile His Lys Met Val Ile
 130 135 140
 Trp Gly Ala Asn Ala Tyr Val Thr Asp Glu Asp Ser Met Ile Tyr Glu
 145 150 155 160
 Gly Ile Arg Asp Val Ser Lys Trp Ser Glu Arg Thr Arg Lys Pro Leu
 165 170 175
 Glu Ala Leu Tyr Gly Tyr Asp Tyr Phe Ala Arg Thr Cys Glu Lys Trp
 180 185 190
 Val Asp Gly Ile Arg Gln Phe Lys His Leu Pro Asp Gly Asn Ile Cys
 195 200 205
 Arg His Leu Leu Pro Arg Val Gln Cys Pro Ala Leu Ile Val His Gly
 210 215 220

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Glu Lys Asp Pro Leu Val Pro Arg Phe His Ala Asp Phe Ile His Lys
 225 230 235 240
 His Val Lys Gly Ser Arg Leu His Leu Met Pro Glu Gly Lys His Asn
 245 250 255
 Leu His Leu Arg Phe Ala Asp Glu Phe Asn Lys Leu Ala Glu Asp Phe
 260 265 270
 Leu Gln

<210> 59
 <211> 1247
 <212> PRT
 <213> Homo sapiens

<400> 59
 Met Met Arg Glu Trp Val Leu Leu Met Ser Val Leu Leu Cys Gly Leu
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 Ala Gly Pro Thr His Leu Phe Gln Pro Ser Leu Val Leu Asp Met Ala
 20 25 30
 Lys Val Leu Asp Asn Tyr Cys Phe Pro Glu Asn Leu Gly Met
 35 40 45
 Gln Glu Ala Ile Gln Gln Ala Ile Lys Ser His Glu Ile Leu Ser Ile
 50 55 60
 Ser Asp Pro Gln Thr Leu Ala Ser Val Leu Thr Ala Gly Val Gln Ser
 65 70 75 80
 Ser Leu Asn Asp Pro Arg Leu Val Ile Ser Tyr Glu Pro Ser Thr Pro
 85 90 95
 Glu Pro Pro Pro Gln Val Pro Ala Leu Thr Ser Leu Ser Glu Glu Glu
 100 105 110
 Leu Leu Ala Trp Leu Gln Arg Gly Leu Arg His Glu Val Leu Glu Gly
 115 120 125
 Asn Val Gly Tyr Leu Arg Val Asp Ser Val Pro Gly Gln Glu Val Leu
 130 135 140
 Ser Met Met Gly Glu Phe Leu Val Ala His Val Trp Gly Asn Leu Met
 145 150 155 160
 Gly Thr Ser Ala Leu Val Leu Asp Leu Arg His Cys Thr Gly Gly Gln
 165 170 175
 Val Ser Gly Ile Pro Tyr Ile Ile Ser Tyr Leu His Pro Gly Asn Thr
 180 185 190
 Ile Leu His Val Asp Thr Ile Tyr Asn Arg Pro Ser Asn Thr Thr Thr
 195 200 205
 Glu Ile Trp Thr Leu Pro Gln Val Leu Gly Glu Arg Tyr Gly Ala Asp
 210 215 220
 Lys Asp Val Val Val Leu Thr Ser Ser Gln Thr Arg Gly Val Ala Glu
 225 230 235 240
 Asp Ile Ala His Ile Leu Lys Gln Met Arg Arg Ala Ile Val Val Gly
 245 250 255
 Glu Arg Thr Gly Gly Gly Ala Leu Asp Leu Arg Lys Leu Arg Ile Gly
 260 265 270
 Glu Ser Asp Phe Phe Phe Thr Val Pro Val Ser Arg Ser Leu Gly Pro
 275 280 285
 Leu Gly Gly Gly Ser Gln Thr Trp Glu Gly Ser Gly Val Leu Pro Cys
 290 295 300
 Val Gly Thr Pro Ala Glu Gln Ala Leu Glu Lys Ala Leu Ala Ile Leu
 305 310 315 320
 Thr Leu Arg Ser Ala Leu Pro Gly Val Val His Cys Leu Gln Glu Val
 325 330 335
 Leu Lys Asp Tyr Tyr Thr Leu Val Asp Arg Val Pro Thr Leu Leu Gln
 340 345 350
 His Leu Ala Ser Met Asp Phe Ser Thr Val Val Ser Glu Glu Asp Leu
 355 360 365
 Val Thr Lys Leu Asn Ala Gly Leu Gln Ala Ala Ser Glu Asp Pro Arg
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Leu 385	Leu	Val	Arg	Ala	Ile 390	Gly	Pro	Thr	Glu	Thr 395	Pro	Ser	Trp	Pro	Ala 400
Pro	Asp	Ala	Ala	Ala 405	Glu	Asp	Ser	Pro	Gly 410	Val	Ala	Pro	Glu	Leu 415	Pro
Glu	Asp	Glu	Ala 420	Ile	Arg	Gln	Ala	Leu 425	Val	Asp	Ser	Val	Phe 430	Gln	Val
Ser	Val	Leu 435	Pro	Gly	Asn	Val	Gly 440	Tyr	Leu	Arg	Phe	Asp 445	Ser	Phe	Ala
Asp	Ala 450	Ser	Val	Leu	Gly	Val 455	Leu	Ala	Pro	Tyr	Val 460	Leu	Arg	Gln	Val
Trp 465	Glu	Pro	Leu	Gln	Asp 470	Thr	Glu	His	Leu	Ile 475	Met	Asp	Leu	Arg	His 480
Asn	Pro	Gly	Gly	Pro 485	Ser	Ser	Ala	Val	Pro 490	Leu	Leu	Leu	Ser	Tyr	Phe 495
Gln	Gly	Pro	Glu 500	Ala	Gly	Pro	Val	His 505	Leu	Phe	Thr	Thr	Tyr 510	Asp	Arg
Arg	Thr	Asn 515	Ile	Thr	Gln	Glu	His 520	Phe	Ser	His	Met	Glu 525	Leu	Pro	Gly
Pro	Arg 530	Tyr	Ser	Thr	Gln	Arg 535	Gly	Val	Tyr	Leu	Leu 540	Thr	Ser	His	Arg
Thr 545	Ala	Thr	Ala	Ala	Glu 550	Glu	Phe	Ala	Phe	Leu 555	Met	Gln	Ser	Leu	Gly 560
Trp	Ala	Thr	Leu	Val 565	Gly	Glu	Ile	Thr	Ala 570	Gly	Asn	Leu	Leu	His 575	Thr
Arg	Thr	Val	Pro 580	Leu	Leu	Asp	Thr	Pro 585	Glu	Gly	Ser	Leu	Ala 590	Leu	Thr
Val	Pro	Val 595	Leu	Thr	Phe	Ile	Asp 600	Asn	His	Gly	Glu	Ala 605	Trp	Leu	Gly
Gly	Gly 610	Val	Val	Pro	Asp	Ala 615	Ile	Val	Leu	Ala	Glu 620	Glu	Ala	Leu	Asp
Lys 625	Ala	Gln	Glu	Val	Leu 630	Glu	Phe	His	Gln	Ser 635	Leu	Gly	Ala	Leu	Val 640
Glu	Gly	Thr	Gly	His 645	Leu	Leu	Glu	Ala	His 650	Tyr	Ala	Arg	Pro	Glu 655	Val
Val	Gly	Gln	Thr 660	Ser	Ala	Leu	Leu	Arg 665	Ala	Lys	Leu	Ala	Gln 670	Gly	Ala
Tyr	Arg	Thr 675	Ala	Val	Asp	Leu	Glu 680	Ser	Leu	Ala	Ser	Gln 685	Leu	Thr	Ala
Asp	Leu 690	Gln	Glu	Val	Ser	Gly 695	Asp	His	Arg	Leu	Leu 700	Val	Phe	His	Ser
Pro	Gly 705	Glu	Leu	Val	Val 710	Glu	Glu	Ala	Pro	Pro 715	Pro	Pro	Pro	Ala	Val 720
Pro	Ser	Pro	Glu	Glu 725	Leu	Thr	Tyr	Leu	Ile 730	Glu	Ala	Leu	Phe	Lys 735	Thr
Glu	Val	Leu	Pro 740	Gly	Gln	Leu	Gly	Tyr 745	Leu	Arg	Phe	Asp	Ala 750	Met	Ala
Glu	Leu	Glu	Thr 755	Val	Lys	Ala	Val 760	Gly	Pro	Gln	Leu	Val 765	Arg	Leu	Val
Trp	Gln 770	Gln	Leu	Val	Asp	Thr 775	Ala	Ala	Leu	Val	Ile 780	Asp	Leu	Arg	Tyr
Asn 785	Pro	Gly	Ser	Tyr	Ser 790	Thr	Ala	Ile	Pro	Leu 795	Leu	Cys	Ser	Tyr	Phe 800
Phe	Glu	Ala	Glu	Pro 805	Arg	Gln	His	Leu	Tyr 810	Ser	Val	Phe	Asp	Arg 815	Ala
Thr	Ser	Lys	Val 820	Thr	Glu	Val	Trp	Thr 825	Leu	Pro	Gln	Val	Ala 830	Gly	Gln
Arg	Tyr	Gly 835	Ser	His	Lys	Asp	Leu 840	Tyr	Ile	Leu	Met	Ser 845	His	Thr	Ser
Gly	Ser 850	Ala	Ala	Glu	Ala	Phe 855	Ala	His	Thr	Met	Gln 860	Asp	Leu	Gln	Arg
Ala	Thr	Val	Ile	Gly	Glu 870	Pro	Thr	Ala	Gly	Gly 875	Ala	Leu	Ser	Val	Gly 880
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 915 920 925
 Asp Ile Val Ala Leu Arg Ala Lys Val Pro Thr Val Leu Gln Thr Ala
 930 935 940
 Gly Lys Leu Val Ala Asp Asn Tyr Ala Ser Ala Glu Leu Gly Ala Lys
 945 950 955 960
 Met Ala Thr Lys Leu Ser Gly Leu Gln Ser Arg Tyr Ser Arg Val Thr
 965 970 975
 Ser Glu Val Ala Leu Ala Glu Ile Leu Gly Ala Asp Leu Gln Met Leu
 980 985 990
 Ser Gly Asp Pro His Leu Lys Ala Ala His Ile Pro Glu Asn Ala Lys
 995 1000 1005
 Asp Arg Ile Pro Gly Ile Val Pro Met Gln Ile Pro Ser Pro Glu Val
 1010 1015 1020
 Phe Glu Glu Leu Ile Lys Phe Ser Phe His Thr Asn Val Leu Glu Asp
 1025 1030 1035 1040
 Asn Ile Gly Tyr Leu Arg Phe Asp Met Phe Gly Asp Gly Glu Leu Leu
 1045 1050 1055
 Thr Gln Val Ser Arg Leu Leu Val Glu His Ile Trp Lys Lys Ile Met
 1060 1065 1070
 His Thr Asp Ala Met Ile Ile Asp Met Arg Phe Asn Ile Gly Gly Pro
 1075 1080 1085
 Thr Ser Ser Ile Pro Ile Leu Cys Ser Tyr Phe Phe Asp Glu Gly Pro
 1090 1095 1100
 Pro Val Leu Leu Asp Lys Ile Tyr Ser Arg Pro Asp Asp Ser Val Ser
 1105 1110 1115 1120
 Glu Leu Trp Thr His Ala Gln Val Val Gly Glu Arg Tyr Gly Ser Lys
 1125 1130 1135
 Lys Ser Met Val Ile Leu Thr Ser Ser Val Thr Ala Gly Thr Ala Glu
 1140 1145 1150
 Glu Phe Thr Tyr Ile Met Lys Arg Leu Gly Arg Ala Leu Val Ile Gly
 1155 1160 1165
 Glu Val Thr Ser Gly Gly Cys Gln Pro Pro Gln Thr Tyr His Val Asp
 1170 1175 1180
 Asp Thr Asn Leu Tyr Leu Thr Ile Pro Thr Ala Arg Ser Val Gly Ala
 1185 1190 1195 1200
 Ser Asp Gly Ser Ser Trp Glu Gly Val Gly Val Thr Pro His Val Val
 1205 1210 1215
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 Val Ile Tyr Leu Val Thr Val Leu Gly Asn Leu Gly Leu Ile Thr Leu
 35 40 45
 Ile Lys Ile Asp Thr Arg Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
 50 55 60
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 Met Met Val Asn Phe Val Val Glu Arg Asn Thr Ile Pro Phe His Ala

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			20					25					30		
Leu	Thr	Thr	Ser	Ile	Leu	Asp	Glu	Val	Glu	Leu	Lys	Gly	Cys	Ser	Ser
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Val	Leu	Gly	His	Leu	Gly	Tyr	Cys	Pro	Gln	Glu	Asn	Val	Leu	Trp	Pro
	50					55					60				
Met	Leu	Thr	Leu	Arg	Glu	His	Leu	Glu	Val	Tyr	Ala	Ala	Val	Lys	Gly
65					70					75					80
Leu	Arg	Lys	Ala	Asp	Ala	Arg	Leu	Ala	Ile	Ala	Arg	Leu	Val	Ser	Ala
				85					90					95	
Phe	Lys	Leu	His	Glu	Gln	Leu	Asn	Val	Pro	Val	Gln	Lys	Leu	Thr	Ala
			100					105					110		
Gly	Ile	Thr	Arg	Lys	Leu	Cys	Phe	Val	Leu	Ser	Leu	Leu	Gly	Asn	Ser
		115					120					125			
Pro	Val	Leu	Leu	Leu	Asp	Glu	Pro	Ser	Thr	Gly	Ile	Asp	Pro	Thr	Gly
	130					135					140				
Gln	Gln	Gln	Met	Trp	Gln	Ala	Ile	Gln	Ala	Val	Val	Lys	Asn	Thr	Glu
145					150					155					160
Arg	Gly	Val	Leu	Leu	Thr	Thr	His	Asn	Leu	Ala	Glu	Ala	Glu	Ala	Leu
				165					170					175	
Cys	Asp	Arg	Val	Ala	Ile	Met	Val	Ser	Gly	Arg	Leu	Arg	Cys	Ile	Gly
			180					185					190		
Ser	Ile	Gln	His	Leu	Lys	Asn	Lys	Leu	Gly	Lys	Asp	Tyr	Ile	Leu	Glu
		195					200					205			
Leu	Lys	Val	Lys	Glu	Thr	Ser	Gln	Val	Thr	Leu	Val	His	Thr	Glu	Ile
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Leu	Lys	Leu	Phe	Pro	Gln	Ala	Ala	Gly	Gln	Glu	Arg	Tyr	Ser	Ser	Leu
225					230					235					240
Leu	Thr	Tyr	Lys	Leu	Pro	Val	Ala	Asp	Val	Tyr	Pro	Leu	Ser	Gln	Thr

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Phe His Lys Leu 245
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35 40 45
Leu Asn Lys Thr Lys Thr Ala Leu Gly Phe Leu Leu Trp Ile Val Cys
50 55 60
Trp Ala Asp Leu Phe Tyr Ser Phe Trp Glu Arg Ser Arg Gly Ile Phe
65 70 75 80
Leu Ala Pro Val Phe Leu Val Ser Pro Thr Leu Leu Gly Ile Thr Met
85 90 95
Leu Leu Ala Thr Phe Leu Ile Gln Leu Glu Arg Arg Lys Gly Val Gln
100 105 110
Ser Ser Gly Ile Met Leu Thr Phe Trp Leu Val Ala Leu Val Cys Ala
115 120 125
Leu Ala Ile Leu Arg Ser Lys Ile Met Thr Ala Leu Lys Glu Val Asp
130 135 140
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145 150 155 160
Gln Leu Val Leu Ser Cys Phe Ser Asp Arg Ser Pro Leu Phe Ser Glu
165 170 175
Thr Ile His Asp Pro Asn Pro Cys Pro Glu Ser Ser Ala Ser Phe Leu
180 185 190
Ser Arg Ile Thr Phe Trp Trp Ile Thr Gly Leu Ile Val Arg Gly Tyr
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Arg Gln Pro Leu Glu Gly Ser Asp Leu Trp Ser Leu Asn Lys Glu Asp
210 215 220
Thr Ser Glu Gln Val Val Pro Val Leu Val Lys Asn Trp Lys Lys Glu
225 230 235 240
Cys Ala Lys Thr Arg Asn Ser Ser Gly Ser Gly Glu Ser Cys Ser Ala
245 250 255
Asn Thr Glu Ala Leu Phe Pro Ala Pro Thr Cys His Lys Ser Phe Gln
260 265 270
Ala Leu Ser Leu Leu Leu Cys Arg Leu Leu Ile Lys Phe Val Asn Asp
275 280 285
Thr Lys Ala Pro Asp Trp Gln Gly Tyr Phe Tyr Thr Val Leu Leu Phe
290 295 300
Val Thr Ala Cys Leu Gln Thr Leu Val Leu His Gln Tyr Phe His Ile
305 310 315 320
Cys Phe Val Ser Gly Met Arg Ile Lys Thr Ala Val Ile Gly Ala Val
325 330 335
Tyr Arg Lys Ala Leu Val Ile Thr Asn Ser Ala Arg Lys Ser Ser Thr
340 345 350
Val Gly Glu Ile Val Asn Leu Met Ser Val Asp Ala Gln Arg Phe Met
355 360 365
Asp Leu Ala Thr Tyr Ile Asn Met Ile Trp Ser Ala Pro Leu Gln Val
370 375 380
Ile Leu Ala Leu Tyr Leu Leu Trp Leu Val Val Ala Pro Asp Val Leu
385 390 395 400
Thr Ala Val Ser Ser Lys Val Ala His Met Lys Ser Lys Asp Asn Arg
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Ile Lys Leu Met Asn Glu Ile Leu Asn Gly Ile Lys Val Leu Lys Leu

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Thr	Phe	Thr	Trp	Val	Cys	Thr	Pro	Phe	Leu	Val	Ala	Leu	Cys	Thr	Phe	
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Ala	Val	Tyr	Val	Thr	Ile	Asp	Glu	Asn	Asn	Ile	Leu	Asp	Ala	Gln	Thr	
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Ala	Phe	Val	Ser	Leu	Ala	Leu	Phe	Asn	Ile	Leu	Arg	Phe	Pro	Leu	Asn	
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Ala	Glu	Met	Asp	Lys	Val	Glu	Gly	His	Val	Ala	Ile	Lys	Gly	Ser	Val	
		595					600									
Ala	Tyr	Val	Pro	Gln	Gln	Ala	Trp	Ile	Gln	Asn	Asp	Ser	Leu	Arg	Glu	
						615					620					
Asn	Ile	Leu	Phe	Gly	Cys	Gln	Leu	Glu	Glu	Pro	Tyr	Tyr	Arg	Ser	Val	
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Lys	Gln	Arg	Val	Ser	Leu	Ala	Arg	Ala	Val	Tyr	Ser	Asn	Ala	Asp	Ile	
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Tyr	Leu	Phe	Asp	Asp	Pro	Leu	Ser	Ala	Val	Asp	Ala	His	Val	Gly	Lys	
						695					700					
His	Ile	Phe	Glu	Asn	Val	Ile	Gly	Pro	Lys	Gly	Met	Leu	Lys	Asn	Lys	
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Ser	Cys	Leu	Ile	Ser	Cys	Asp	Leu	Gln	Val	Lys	Leu	Ser	Val	Tyr	Trp	
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Asp	Tyr	Met	Lys	Ala	Ile	Gly	Leu	Phe	Ile	Ser	Phe	Leu	Ser	Ile	Phe	
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Leu	Phe	Met	Cys	Asn	His	Val	Ser	Ala	Leu	Ala	Ser	Asn	Tyr	Trp	Leu	
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Ser	Leu	Trp	Thr	Asp	Asp	Pro	Ile	Val	Asn	Gly						

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 Tyr Tyr Pro Ser Ile Val Ala Asn Arg Trp Leu Ala Val Arg Leu Glu
 965 970 975
 Cys Val Gly Asn Cys Ile Val Leu Phe Ala Ala Leu Phe Ala Val Ile
 980 985 990
 Ser Arg His Ser Leu Ser Ala Gly Leu Val Gly Leu Ser Val Ser Tyr
 995 1000 1005
 Ser Leu Gln Val Thr Thr Tyr Leu Asn Trp Leu Val Arg Met Ser Ser
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 Glu Met Glu Thr Asn Ile Val Ala Val Glu Arg Leu Lys Glu Tyr Ser
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 Glu Thr Glu Lys Glu Ala Pro Trp Gln Ile Gln Glu Thr Ala Pro Pro
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 Arg Tyr Arg Glu Asp Leu Asp Phe Val Leu Arg His Ile Asn Val Thr
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 Gly Glu Ile Ile Ile Asp Gly Ile Asn Ile Ala Lys Ile Gly Leu His
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 Asp Leu Arg Phe Lys Ile Thr Ile Ile Pro Gln Asp Pro Val Leu Phe
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 Ser Gly Ser Leu Arg Met Asn Leu Asp Pro Phe Ser Gln Tyr Ser Asp
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 Glu Asn Phe His Tyr Gly Ser Val Val Thr Tyr Arg Cys Asn Leu Gly
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Gln	Cys	Ile	Ile 100	Pro	Asn	Lys	Cys	Thr 105	Pro	Pro	Asn	Val	Glu 110	Asn	Gly
Ile	Leu	Val 115	Ser	Asp	Asn	Arg	Ser 120	Leu	Phe	Ser	Leu	Asn 125	Glu	Val	Val
Glu	Phe 130	Arg	Cys	Gln	Pro	Gly 135	Phe	Val	Met	Lys	Gly 140	Pro	Arg	Arg	Val
Lys 145	Cys	Gln	Ala	Leu	Asn 150	Lys	Trp	Glu	Pro	Glu 155	Leu	Pro	Ser	Cys	Ser 160
Arg	Val	Cys	Gln	Pro 165	Pro	Pro	Glu	Ile	Leu 170	His	Gly	Glu	His	Thr 175	Pro
Ser	His	Gln	Asp 180	Asn	Phe	Ser	Pro	Gly 185	Gln	Glu	Val	Phe	Tyr 190	Ser	Cys
Glu	Pro	Gly 195	Tyr	Asp	Leu	Arg	Gly 200	Ala	Ala	Ser	Leu	His 205	Cys	Thr	Pro
Gln	Gly 210	Asp	Trp	Ser	Pro	Glu 215	Ala	Pro	Arg	Cys	Ala 220	Val	Lys	Ser	Cys
Asp 225	Asp	Phe	Leu	Gly	Gln 230	Leu	Pro	His	Gly	Arg	Val 235	Leu	Phe	Pro	Leu 240
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Gln	Cys	His 515	Thr	Gly	Pro	Asp	Gly 520	Glu	Gln	Leu	Phe	Glu 525	Leu	Val	Gly
Glu	Arg 530	Ser	Ile	Tyr	Cys	Thr 535	Ser	Lys	Asp	Asp	Gln 540	Val	Gly	Val	Trp
Ser 545	Ser	Pro	Pro	Pro	Arg 550	Cys	Ile	Ser	Thr	Asn 555	Lys	Cys	Thr	Ala	Pro 560
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	610					615					620						
Glu	His	Thr	Leu	Ser	His	Gln	Asp	Asn	Phe	Ser	Pro	Gly	Gln	Glu	Val		
	625				630					635					640		
Phe	Tyr	Ser	Cys	Glu	Pro	Ser	Tyr	Asp	Leu	Arg	Gly	Ala	Ala	Ser	Leu		
			645						650					655			
His	Cys	Thr	Pro	Gln	Gly	Asp	Trp	Ser	Pro	Glu	Ala	Pro	Arg	Cys	Thr		
			660					665						670			
Val	Lys	Ser	Cys	Asp	Asp	Phe	Leu	Gly	Gln	Leu	Pro	His	Gly	Arg	Val		
		675					680					685					
Leu	Leu	Pro	Leu	Asn	Leu	Gln	Leu	Gly	Ala	Lys	Val	Ser	Phe	Val	Cys		
	690					695					700						
Asp	Glu	Gly	Phe	Arg	Leu	Lys	Gly	Arg	Ser	Ala	Ser	His	Cys	Val	Leu		
	705				710					715					720		
Ala	Gly	Met	Lys	Ala	Leu	Trp	Asn	Ser	Ser	Val	Pro	Val	Cys	Glu	Arg		
				725					730					735			

<210> 65

<211> 738

<212> PRT

<213> Homo sapiens

<400> 65

Met	Arg	Gly	Pro	Pro	Ala	Trp	Pro	Leu	Arg	Leu	Leu	Glu	Pro	Pro	Ser		
1				5					10					15			
Pro	Ala	Glu	Pro	Gly	Arg	Leu	Leu	Pro	Val	Ala	Cys	Val	Trp	Ala	Ala		
			20					25					30				
Ala	Ser	Arg	Val	Pro	Gly	Ser	Leu	Ser	Pro	Phe	Thr	Gly	Leu	Arg	Pro		
		35					40					45					
Ala	Arg	Leu	Trp	Gly	Ala	Gly	Pro	Ala	Leu	Leu	Trp	Gly	Val	Gly	Ala		
	50					55					60						
Ala	Arg	Arg	Trp	Arg	Ser	Gly	Cys	Arg	Gly	Gly	Gly	Pro	Gly	Ala	Ser		
	65				70					75					80		
Arg	Gly	Val	Leu	Gly	Leu	Ala	Arg	Leu	Leu	Gly	Leu	Trp	Ala	Arg	Gly		
			85						90					95			
Pro	Gly	Ser	Cys	Arg	Cys	Gly	Ala	Phe	Ala	Gly	Pro	Gly	Ala	Pro	Arg		
			100					105					110				
Leu	Pro	Arg	Ala	Arg	Phe	Pro	Gly	Pro	Ala	Ala	Ala	Ala	Ala	Trp	Ala		
		115					120					125					
Gly	Asp	Glu	Ala	Trp	Arg	Arg	Gly	Pro	Ala	Ala	Pro	Pro	Gly	Asp	Lys		
	130					135					140						
Gly	Arg	Leu	Arg	Pro	Ala	Ala	Ala	Gly	Leu	Pro	Glu	Ala	Arg	Lys	Leu		
	145				150					155					160		
Leu	Gly	Leu	Ala	Tyr	Pro	Glu	Arg	Arg	Arg	Leu	Ala	Ala	Ala	Val	Gly		
			165						170					175			
Phe	Leu	Thr	Met	Ser	Ser	Val	Ile	Ser	Met	Ser	Ala	Pro	Phe	Phe	Leu		
			180					185					190				
Gly	Lys	Ile	Ile	Asp	Val	Ile	Tyr	Thr	Asn	Pro	Thr	Val	Asp	Tyr	Ser		
		195					200					205					
Asp	Asn	Leu	Thr	Arg	Leu	Cys	Leu	Gly	Leu	Ser	Ala	Val	Phe	Leu	Cys		
	210					215					220						
Gly	Ala	Ala	Ala	Asn	Ala	Ile	Arg	Val	Tyr	Leu	Met	Gln	Thr	Ser	Gly		
	225				230					235					240		
Gln	Arg	Ile	Val	Asn	Arg	Leu	Arg	Thr	Ser	Leu	Phe	Ser	Ser	Ile	Leu		
			245						250					255			
Arg	Gln	Glu	Val	Ala	Phe	Phe	Asp	Lys	Thr	Arg	Thr	Gly	Glu	Leu	Ile		
		260						265					270				
Asn	Arg	Leu	Ser	Ser	Asp	Thr	Ala	Leu	Leu	Gly	Arg	Ser	Val	Thr	Glu		

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275 280 285
 Asn Leu Ser Asp Gly Leu Arg Ala Gly Ala Gln Ala Ser Val Gly Ile
 290 295 300
 Ser Met Met Phe Phe Val Ser Pro Asn Leu Ala Thr Phe Val Leu Ser
 305 310 315 320
 Val Val Pro Pro Val Ser Ile Ile Ala Val Ile Tyr Gly Arg Tyr Leu
 325 330 335
 Arg Lys Leu Thr Lys Val Thr Gln Asp Ser Leu Ala Gln Ala Thr Gln
 340 345 350
 Leu Ala Glu Glu Arg Ile Gly Asn Val Arg Thr Val Arg Ala Phe Gly
 355 360 365
 Lys Glu Met Thr Glu Ile Glu Lys Tyr Ala Ser Lys Val Asp His Val
 370 375 380
 Met Gln Leu Ala Arg Lys Glu Ala Phe Ala Arg Ala Gly Phe Phe Gly
 385 390 395 400
 Ala Thr Gly Leu Ser Gly Asn Leu Ile Val Leu Ser Val Leu Tyr Lys
 405 410 415
 Gly Gly Leu Leu Met Gly Ser Ala His Met Thr Val Gly Glu Leu Ser
 420 425 430
 Ser Phe Leu Met Tyr Ala Phe Trp Val Gly Ile Ser Ile Gly Gly Leu
 435 440 445
 Ser Ser Phe Tyr Ser Glu Leu Met Lys Gly Leu Gly Ala Gly Gly Arg
 450 455 460
 Leu Trp Glu Leu Leu Glu Arg Glu Pro Lys Leu Pro Phe Asn Glu Gly
 465 470 475 480
 Val Ile Leu Asn Glu Lys Ser Phe Gln Gly Ala Leu Glu Phe Lys Asn
 485 490 495
 Val His Phe Ala Tyr Pro Ala Arg Pro Glu Val Pro Ile Phe Gln Asp
 500 505 510
 Phe Ser Leu Ser Ile Pro Ser Gly Ser Val Thr Ala Leu Val Gly Pro
 515 520 525
 Ser Gly Ser Gly Lys Ser Thr Val Leu Ser Leu Leu Arg Leu Tyr
 530 535 540
 Asp Pro Ala Ser Gly Thr Ile Ser Leu Asp Gly His Asp Ile Arg Gln
 545 550 555 560
 Leu Asn Pro Val Trp Leu Arg Ser Lys Ile Gly Thr Val Ser Gln Glu
 565 570 575
 Pro Ile Leu Phe Ser Cys Ser Ile Ala Glu Asn Ile Ala Tyr Gly Ala
 580 585 590
 Asp Asp Pro Ser Ser Val Thr Ala Glu Glu Ile Gln Arg Val Ala Glu
 595 600 605
 Val Ala Asn Ala Val Ala Phe Ile Arg Asn Phe Pro Gln Gly Phe Asn
 610 615 620
 Thr Val Val Gly Glu Lys Gly Val Leu Leu Ser Gly Gly Gln Lys Gln
 625 630 635 640
 Arg Ile Ala Ile Ala Arg Ala Leu Leu Lys Asn Pro Lys Ile Leu Leu
 645 650 655
 Leu Asp Glu Ala Thr Ser Ala Leu Asp Ala Glu Asn Glu Tyr Leu Val
 660 665 670
 Gln Glu Ala Leu Asp Arg Leu Met Asp Gly Arg Thr Val Leu Val Ile
 675 680 685
 Ala His Arg Leu Ser Thr Ile Lys Asn Ala Asn Met Val Ala Val Leu
 690 695 700
 Asp Gln Gly Lys Ile Thr Glu Tyr Gly Lys His Glu Glu Leu Leu Ser
 705 710 715 720
 Lys Pro Asn Gly Ile Tyr Arg Lys Leu Met Asn Lys Gln Ser Phe Ile
 725 730 735
 Ser Ala

<210> 66
 <211> 1273
 <212> PRT

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<213> Homo sapiens

<400> 66

Gly Ile Leu Thr Trp Tyr Ile Glu Ala Val His Pro Gly Met Tyr Gly
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 Leu Pro Arg Pro Trp Tyr Phe Pro Leu Gln Lys Ser Tyr Trp Leu Gly
 20 25 30
 Ser Gly Arg Thr Glu Ala Trp Glu Trp Ser Trp Pro Trp Ala Arg Thr
 35 40 45
 Pro Arg Leu Ser Val Met Glu Glu Asp Gln Ala Cys Ala Met Glu Ser
 50 55 60
 Arg Arg Phe Glu Glu Thr Arg Gly Met Glu Glu Glu Pro Thr His Leu
 65 70 75 80
 Pro Leu Val Val Cys Val Asp Lys Leu Thr Lys Val Tyr Lys Asp Asp
 85 90 95
 Lys Lys Leu Ala Leu Asn Lys Leu Ser Leu Asn Leu Tyr Glu Asn Gln
 100 105 110
 Val Val Ser Phe Leu Gly His Asn Gly Ala Gly Lys Thr Thr His His
 115 120 125
 Asn Val Leu Phe Asp Arg Leu Thr Val Glu Glu His Leu Trp Phe Tyr
 130 135 140
 Ser Arg Leu Lys Ser Met Ala Gln Glu Glu Ile Arg Arg Glu Met Asp
 145 150 155 160
 Lys Met Ile Glu Asp Leu Glu Leu Ser Asn Lys Arg His Ser Leu Val
 165 170 175
 Gln Thr Leu Ser Gly Gly Met Lys Arg Lys Leu Ser Val Ala Ile Ala
 180 185 190
 Phe Val Gly Gly Ser Arg Ala Ile Ile Leu Asp Glu Pro Thr Ala Gly
 195 200 205
 Val Asp Pro Tyr Ala Arg Arg Ala Ile Trp Asp Leu Ile Leu Lys Tyr
 210 215 220
 Lys Pro Gly Arg Thr Ile Leu Leu Ser Thr His His Met Asp Glu Ala
 225 230 235 240
 Asp Leu Leu Gly Asp Arg Ile Ala Ile Ile Ser His Gly Lys Leu Lys
 245 250 255
 Cys Cys Gly Ser Pro Leu Phe Leu Lys Gly Thr Tyr Gly Asp Gly Tyr
 260 265 270
 Arg Leu Thr Leu Val Lys Arg Pro Ala Glu Pro Gly Gly Pro Gln Glu
 275 280 285
 Pro Gly Leu Ala Ser Ser Pro Pro Gly Arg Ala Pro Leu Ser Ser Cys
 290 295 300
 Ser Glu Leu Gln Val Ser Gln Phe Ile Arg Lys His Val Ala Ser Cys
 305 310 315 320
 Leu Leu Val Ser Asp Thr Ser Thr Glu Leu Ser Tyr Ile Leu Pro Ser
 325 330 335
 Glu Ala Ala Lys Lys Gly Ala Phe Glu Arg Leu Phe Gln His Leu Glu
 340 345 350
 Arg Ser Leu Asp Ala Leu His Leu Ser Ser Phe Gly Leu Met Asp Thr
 355 360 365
 Thr Leu Glu Glu Val Phe Leu Lys Val Ser Glu Glu Asp Gln Ser Leu
 370 375 380
 Glu Asn Ser Glu Ala Asp Val Lys Glu Ser Arg Lys Asp Val Leu Pro
 385 390 395 400
 Gly Ala Glu Gly Pro Ala Ser Gly Glu Gly His Ala Gly Asn Leu Ala
 405 410 415
 Arg Cys Ser Glu Leu Thr Gln Ser Gln Ala Ser Leu Gln Ser Ala Ser
 420 425 430
 Ser Val Gly Ser Ala Arg Gly Asp Glu Gly Ala Gly Tyr Thr Asp Val
 435 440 445
 Tyr Gly Asp Tyr Arg Pro Leu Phe Asp Asn Pro Gln Asp Pro Asp Asn
 450 455 460
 Val Ser Leu Gln Glu Val Glu Ala Glu Ala Leu Ser Arg Val Gly Gln
 465 470 475 480

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Gly	Ser	Arg	Lys	Leu	Asp	Gly	Gly	Trp	Leu	Lys	Val	Arg	Gln	Phe	His
				485					490					495	
Gly	Leu	Leu	Val	Lys	Arg	Phe	His	Cys	Ala	Arg	Arg	Asn	Ser	Lys	Ala
			500					505					510		
Leu	Phe	Ser	Gln	Ile	Leu	Leu	Pro	Ala	Phe	Phe	Val	Cys	Val	Ala	Met
		515					520					525			
Thr	Val	Ala	Leu	Ser	Val	Pro	Glu	Ile	Gly	Asp	Leu	Pro	Pro	Leu	Val
	530					535					540				
Leu	Ser	Pro	Ser	Gln	Tyr	His	Asn	Tyr	Thr	Gln	Pro	Arg	Gly	Asn	Phe
545					550					555					560
Ile	Pro	Tyr	Ala	Asn	Glu	Glu	Arg	Arg	Glu	Tyr	Arg	Arg	His	Pro	Ala
				565					570					575	
Gly	Ala	Ser	Leu	Val	Gly	Gly	Ala	Ser	Glu	Gly	Ala	Gly	Thr	Ala	Leu
			580					585					590		
Val	Gly	Gln	Ala	Gly	Glu	Gly	Ala	Gly	Leu	Ala	Arg	Gly	Gly	Asp	Trp
		595					600					605			
Gln	Pro	His	Leu	Thr	Leu	Ile	Trp	Gly	Arg	Gly	Gly	Glu	Asp	Leu	Gly
	610					615					620				
Pro	Glu	Ser	Ala	Ala	Pro	Ala	Pro	Pro	Cys	Ala	Gly	Ile	Thr	Val	Thr
625					630					635					640
Asn	His	Pro	Met	Asn	Lys	Thr	Ser	Ala	Ser	Leu	Ser	Leu	Asp	Tyr	Leu
				645					650					655	
Leu	Gln	Gly	Thr	Asp	Val	Val	Ile	Ala	Ile	Phe	Ile	Ile	Val	Ala	Met
			660					665					670		
Ser	Phe	Val	Pro	Ala	Ser	Phe	Val	Val	Phe	Leu	Val	Ala	Glu	Lys	Ser
		675					680					685			
Thr	Lys	Ala	Lys	His	Leu	Gln	Phe	Val	Ser	Gly	Cys	Asn	Pro	Ile	Ile
	690					695					700				
Tyr	Trp	Leu	Ala	Asn	Tyr	Val	Trp	Asp	Met	Leu	Asn	Tyr	Leu	Val	Pro
705					710					715					720
Ala	Thr	Cys	Cys	Val	Ile	Ile	Leu	Phe	Val	Phe	Asp	Leu	Pro	Ala	Tyr
				725					730					735	
Thr	Ser	Pro	Thr	Asn	Phe	Pro	Ala	Val	Leu	Ser	Leu	Phe	Leu	Leu	Tyr
			740					745					750		
Gly	Trp	Ser	Ile	Thr	Pro	Ile	Met	Tyr	Pro	Ala	Ser	Phe	Trp	Phe	Glu
		755					760					765			
Val	Pro	Ser	Ser	Ala	Tyr	Val	Phe	Leu	Ile	Val	Ile	Asn	Leu	Phe	Ile
		770				775					780				
Gly	Ile	Thr	Ala	Thr	Val	Ala	Thr	Phe	Leu	Leu	Gln	Leu	Phe	Glu	His
785					790					795					800
Asp	Lys	Asp	Leu	Lys	Val	Val	Asn	Ser	Tyr	Leu	Lys	Ser	Cys	Phe	Leu
				805					810					815	
Ile	Phe	Pro	Asn	Tyr	Asn	Leu	Gly	His	Gly	Leu	Met	Glu	Met	Ala	Tyr
			820					825					830		
Asn	Glu	Tyr	Ile	Asn	Glu	Tyr	Tyr	Ala	Lys	Ile	Gly	Gln	Phe	Asp	Lys
		835					840					845			
Met	Lys	Ser	Pro	Phe	Glu	Trp	Asp	Ile	Val	Thr	Arg	Gly	Leu	Val	Ala
	850					855					860				
Met	Ala	Val	Glu	Gly	Val	Val	Gly	Phe	Leu	Leu	Thr	Ile	Met	Cys	Gln
865					870					875					880
Tyr	Asn	Phe	Leu	Arg	Arg	Pro	Gln	Arg	Met	Pro	Val	Ser	Thr	Lys	Pro
				885					890					895	
Val	Glu	Asp	Asp	Val	Asp	Val	Ala	Ser	Glu	Arg	Gln	Arg	Val	Leu	Arg
			900					905					910		
Gly	Asp	Ser	Asp	Asn	Asp	Met	Cys	Phe	Gly	Leu	Leu	Gly	Val	Asn	Gly
		915					920					925			
Ala	Gly	Lys	Thr	Ser	Thr	Phe	Lys	Met	Leu	Thr	Gly	Asp	Glu	Ser	Thr
	930					935					940				
Thr	Gly	Gly	Glu	Ala	Phe	Val	Asn	Gly	His	Ser	Val	Leu	Lys	Glu	Leu
945					950					955					960
Leu	Gln	Val	Gln	Gln	Ser	Leu	Gly	Tyr	Cys	Pro	Gln	Cys	Asp	Ala	Leu
			965						970					975	
Phe	Asp	Glu	Leu	Thr	Ala	Arg	Glu	His	Leu	Gln	Leu	Tyr	Thr	Arg	Leu

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980 985 990
 Arg Gly Ile Ser Trp Lys Asp Glu Ala Arg Val Val Lys Trp Ala Leu
 995 1000 1005
 Glu Lys Leu Glu Leu Thr Lys Tyr Ala Asp Lys Pro Ala Gly Thr Tyr
 1010 1015 1020
 Ser Gly Gly Asn Lys Arg Lys Leu Ser Thr Ala Ile Ala Leu Ile Gly
 1025 1030 1035 1040
 Tyr Pro Ala Phe Ile Phe Leu Asp Glu Pro Thr Thr Gly Met Asp Pro
 1045 1050 1055
 Lys Ala Arg Arg Phe Leu Trp Asn Leu Ile Leu Asp Leu Ile Lys Thr
 1060 1065 1070
 Gly Arg Ser Val Val Leu Thr Ser His Ser Met Glu Glu Cys Glu Ala
 1075 1080 1085
 Leu Cys Thr Arg Leu Ala Ile Met Val Asn Gly Arg Leu Arg Cys Leu
 1090 1095 1100
 Gly Ser Ile Gln His Leu Lys Asn Arg Phe Gly Asp Gly Tyr Met Ile
 1105 1110 1115 1120
 Thr Val Arg Thr Lys Ser Ser Gln Ser Val Lys Asp Val Val Arg Phe
 1125 1130 1135
 Phe Asn Arg Asn Phe Pro Glu Ala Met Leu Lys Glu Arg His His Thr
 1140 1145 1150
 Lys Val Gln Tyr Gln Leu Lys Ser Glu His Ile Ser Leu Ala Gln Val
 1155 1160 1165
 Phe Ser Lys Met Glu Gln Val Ser Gly Val Leu Gly Ile Glu Asp Tyr
 1170 1175 1180
 Ser Val Ser Gln Thr Thr Leu Asp Asn Val Phe Val Asn Phe Ala Lys
 1185 1190 1195 1200
 Lys Gln Ser Asp Asn Leu Glu Gln Gln Glu Thr Glu Pro Pro Ser Ala
 1205 1210 1215
 Leu Gln Ser Pro Leu Gly Cys Leu Leu Ser Leu Leu Arg Pro Arg Ser
 1220 1225 1230
 Ala Pro Thr Glu Leu Arg Ala Leu Val Ala Asp Glu Pro Glu Asp Leu
 1235 1240 1245
 Asp Thr Glu Asp Glu Gly Leu Ile Ser Phe Glu Glu Glu Arg Ala Gln
 1250 1255 1260
 Leu Ser Phe Asn Thr Asp Thr Leu Cys
 1265 1270

<210> 67

<211> 1479

<212> PRT

<213> Homo sapiens

<400> 67

Met Gly Pro Gly Arg Pro Ala Pro Ala Pro Trp Pro Arg His Leu Leu
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 Arg Cys Val Leu Leu Leu Gly Cys Leu His Leu Gly Arg Pro Gly Ala
 20 25 30
 Pro Gly Asp Ala Ala Leu Pro Glu Pro Asn Ile Phe Leu Ile Phe Ser
 35 40 45
 His Gly Leu Gln Gly Cys Leu Glu Ala Gln Gly Gly Gln Val Arg Val
 50 55 60
 Thr Pro Ala Cys Asn Thr Ser Leu Pro Ala Gln Arg Trp Lys Trp Val
 65 70 75 80
 Ser Arg Asn Arg Leu Phe Asn Leu Gly Thr Met Gln Cys Leu Gly Thr
 85 90 95
 Gly Trp Pro Gly Thr Asn Thr Thr Ala Ser Leu Gly Met Tyr Glu Cys
 100 105 110
 Asp Arg Glu Ala Leu Asn Leu Arg Trp His Cys Arg Thr Leu Gly Asp
 115 120 125
 Gln Leu Ser Leu Leu Leu Gly Ala Arg Thr Ser Asn Ile Ser Lys Pro
 130 135 140
 Gly Thr Leu Glu Arg Gly Asp Gln Thr Arg Ser Gly Gln Trp Arg Ile

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145	Tyr	Gly	Ser	Glu	Glu	150	Asp	Leu	Cys	Ala	155	Pro	Tyr	His	Glu	160	Val	Tyr		
				165	Asn	Ser	His	Gly	Lys	170	Pro	Cys	Thr	Ile	Pro	175	Phe	Lys		
	Thr	Ile	Gln	Gly	180	Trp	Phe	His	Gly	185	Cys	Thr	Ser	Thr	Gly	190	Arg	Glu	Asp	
	Tyr	Asp	Asn	Gln	195	Trp	Cys	Ala	Thr	200	Gln	Asp	Tyr	Gly	205	Lys	Asp	Glu	Arg	
	Gly	His	Leu	Trp	210	Cys	Pro	Ile	Lys	215	Ser	Asn	Asp	Cys	Glu	220	Thr	Phe	Trp	Asp
	Trp	Gly	Phe	Cys	225	Pro	Ile	230	Asp	Ser	Cys	Tyr	Gln	235	Phe	Asn	Phe	Gln	Ser	Thr
	Lys	Asp	Gln	Leu	245	Thr	Asp	Ser	Cys	250	Tyr	Gln	255	Phe	Asn	Phe	Gln	Ser	Thr	
	Leu	Ser	Trp	Arg	260	Glu	Ala	Trp	Ala	265	Ser	Cys	Glu	Gln	Gln	Gly	270	Ala	Asp	
	Leu	Leu	Ser	Ile	275	Thr	Glu	Ile	His	280	Glu	Gln	Thr	Tyr	Ile	285	Asn	Gly	Leu	
	Leu	Thr	Gly	Tyr	290	Ser	Ser	Thr	295	Leu	Trp	Ile	Gly	Leu	300	Asn	Asp	Leu	Asp	
	Thr	Ser	Gly	Gly	305	Trp	Gln	Trp	Ser	310	Asp	Asn	Ser	Pro	Leu	Lys	Tyr	Leu	320	
	Asn	Trp	Glu	Ser	325	Asp	Gln	Pro	Asp	330	Asn	Pro	Ser	Glu	Glu	Asn	Cys	Gly	335	
	Val	Ile	Arg	Thr	340	Glu	Ser	Ser	Gly	345	Gly	Trp	Gln	Asn	Arg	Asp	Cys	Ser	350	
	Ile	Ala	Leu	Pro	355	Tyr	Val	Cys	Lys	360	Lys	Lys	Pro	Asn	Ala	365	Thr	Ala	Glu	
	Pro	Thr	Pro	Pro	370	Asp	Arg	Trp	Ala	375	Asn	Val	Lys	Val	Glu	380	Cys	Glu	Pro	
	Ser	Trp	Gln	Pro	385	Phe	Gln	Gly	His	390	Cys	Tyr	Arg	Leu	Gln	Ala	Glu	Lys	400	
	Arg	Ser	Trp	Gln	405	Glu	Ser	Lys	Lys	410	Ala	Cys	Leu	Arg	Gly	Gly	Gly	Asp	415	
	Leu	Val	Ser	Ile	420	His	Ser	Met	Ala	425	Glu	Leu	Glu	Phe	Ile	430	Thr	Lys	Gln	
	Ile	Lys	Gln	Glu	435	Val	Glu	Glu	Leu	440	Trp	Ile	Gly	Leu	445	Asn	Asp	Leu	Lys	
	Leu	Gln	Met	Asn	450	Phe	Glu	Trp	455	Ser	Asp	Gly	Ser	Leu	460	Val	Ser	Phe	Thr	
	His	Trp	His	Pro	465	Phe	Glu	Pro	470	Asn	Asn	Phe	Arg	Asp	Ser	Leu	Glu	Asp	480	
	Cys	Val	Thr	Ile	485	Trp	Gly	Pro	Glu	490	Gly	Arg	Trp	Asn	Asp	Ser	Pro	Cys	495	
	Asn	Gln	Ser	Leu	500	Pro	Ser	Ile	Cys	505	Lys	Ala	Gly	Gln	Leu	510	Ser	Gln	515	
	Gly	Ala	Ala	Glu	520	Glu	Asp	His	Gly	525	Cys	Arg	Lys	Gly	Trp	530	Thr	Trp	His	
	Ser	Pro	Ser	Cys	535	Tyr	Trp	Leu	Gly	540	Glu	Asp	Gln	Val	Thr	545	Tyr	Ser	Glu	
	Ala	Arg	Arg	Leu	550	Cys	Thr	Asp	His	555	Gly	Ser	Gln	Leu	Val	560	Thr	Ile	Thr	
	Asn	Arg	Phe	Glu	565	Gln	Ala	Phe	Val	570	Ser	Ser	Leu	Ile	Tyr	575	Asn	Trp	Glu	
	Gly	Glu	Tyr	Phe	580	Trp	Thr	Ala	Leu	585	Gln	Asp	Leu	Asn	Ser	590	Thr	Gly	Ser	
	Phe	Phe	Trp	Leu	595	Ser	Gly	Asp	Glu	600	Val	Met	Tyr	Thr	His	605	Trp	Asn	Arg	
	Asp	Gln	Pro	Gly	610	Tyr	Ser	Arg	Gly	615	Gly	Gly	Cys	Val	Ala	620	Leu	Ala	Thr	Gly
	Ser	Ala	Met	Gly	625	Leu	Trp	Glu	Val	630	Lys	Asn	Cys	Thr	Ser	635	Phe	Arg	Ala	
	Arg	Tyr	Ile	Cys	645	Arg	Gln	Ser	Leu	650	Gly	Thr	Pro	Val	Thr	655	Pro	Glu	Leu	

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Pro	Gly	Pro	Asp	Pro	Thr	Pro	Ser	Leu	Thr	Gly	Ser	Cys	Pro	Gln	Gly		
Trp	Ala	Ser	660	Asp	Thr	Lys	Leu	Arg	Tyr	Cys	Tyr	Lys	Val	670	Phe	Ser	Ser
Glu	Arg	Leu	675	Gln	Asp	Lys	Lys	Ser	Trp	Val	Gln	Ala	Gln	685	Gly	Ala	Cys
Gln	690	Glu	Leu	Gly	Ala	Gln	Leu	Leu	Ser	Leu	Ala	Ser	Tyr	700	Glu	Glu	Glu
705	Phe	Val	Ala	Asn	Met	Leu	Asn	Lys	Ile	Phe	Gly	Glu	Ser	715	Glu	Pro	Pro
His	Ile	His	725	Gln	His	Trp	Phe	Trp	730	Ile	Gly	Leu	Asn	735	Arg	Arg	Asp
Glu	740	Gly	Gln	Ser	Trp	Arg	Trp	Ser	745	Asp	Gly	Val	Gly	750	Phe	Ser	Ser
Pro	Arg	755	Gly	Gln	Ser	Trp	Arg	Trp	760	Ser	Asp	Gly	Val	765	Gly	Phe	Ser
Tyr	His	770	Asn	Phe	Asp	Arg	Ser	Arg	775	His	Asp	Asp	Asp	780	Ile	Arg	Gly
Cys	Ala	Val	Leu	Asp	Leu	Ala	Ser	Leu	Gln	Trp	Val	Ala	Met	785	Gln	Cys	Cys
785	Thr	Gln	Leu	Asp	Trp	Ile	Cys	Lys	Ile	Pro	Arg	Gly	Thr	800	Asp	Val	Val
Asp	Thr	Gln	Leu	805	Trp	Ile	Cys	Lys	810	Pro	Arg	Gly	Thr	815	Asp	Val	Val
Arg	Glu	Pro	Asp	820	Asp	Ser	Pro	Gln	Gly	Arg	Arg	Glu	Trp	830	Leu	Arg	Phe
Gln	Glu	Ala	Glu	Tyr	Lys	Phe	Phe	Glu	825	His	His	Ser	Thr	840	Trp	Ala	Gln
Ala	Gln	Arg	Ile	Cys	Thr	Trp	Phe	Gln	840	Ala	Glu	Leu	Thr	845	Ser	Val	His
850	Gln	Ala	Glu	Leu	Asp	Phe	Leu	Ser	855	His	Asn	Leu	Gln	860	Lys	Phe	Ser
Ser	865	Gln	Ala	Glu	Gln	His	Trp	Trp	870	Ile	Gly	Leu	His	875	Thr	Ser	Ser
Arg	Ala	Gln	Glu	Gln	His	Trp	Trp	Ile	885	Gly	Leu	His	Thr	890	Ser	Glu	Ser
Asp	Gly	Arg	Phe	Arg	Trp	Thr	Asp	Gly	895	Ser	Ile	Ile	Asn	900	Phe	Ile	Ser
Trp	Ala	Pro	Gly	Lys	Pro	Arg	Pro	Val	905	Gly	Lys	Asp	Lys	910	Lys	Cys	Val
Tyr	Met	Thr	Ala	Ser	Arg	Glu	Asp	Trp	915	Gly	Asp	Gln	Arg	920	Cys	Leu	Thr
Ala	Leu	Pro	Tyr	Ile	Cys	Lys	Arg	Ser	925	Asn	Val	Thr	Lys	930	Glu	Thr	Gln
945	Leu	Pro	Tyr	Ile	Cys	Lys	Arg	Ser	935	Asn	Val	Thr	Lys	940	Glu	Thr	Gln
Pro	Pro	Asp	Leu	Pro	Thr	Thr	Ala	Leu	945	Gly	Gly	Cys	Pro	950	Ser	Asp	Trp
Ile	Gln	Phe	Leu	Asn	Lys	Cys	Phe	Gln	955	Val	Gln	Gly	Gln	960	Glu	Pro	Gln
Ser	Arg	Val	Lys	Trp	Ser	Glu	Ala	Gln	965	Phe	Ser	Cys	Glu	970	Gln	Gln	Glu
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Ala	Gln	Leu	Val	Thr	Ile	Thr	Asn	Pro	1010	Leu	Glu	Gln	Ala	1015	Phe	Ile	Thr
Ala	Ser	Leu	Pro	Asn	Val	Thr	Phe	Asp	1020	Leu	Trp	Ile	Gly	1025	Leu	His	Ala
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Ser	Gln	Arg	Asp	Phe	Gln	Trp	Val	Glu	1040	Gln	Pro	Leu	Met	1045	Tyr	Ala	Ala
Asn	Trp	Ala	Pro	Gly	Glu	Pro	Ser	Gly	1050	Pro	Ser	Pro	Ala	1055	Pro	Ser	Gly
Asn	Lys	Pro	Thr	Ser	Cys	Ala	Val	Val	1060	Leu	His	Ser	Pro	1065	Ser	Ala	His
Phe	Thr	Gly	Arg	Trp	Asp	Asp	Arg	Ser	1070	Cys	Thr	Glu	Glu	1075	Thr	His	Gly
1080	Gly	Arg	Trp	Asp	Asp	Arg	Ser	Cys	1085	Thr	Glu	Glu	Thr	1090	His	Gly	Gly
Phe	Ile	Cys	Gln	Lys	Gly	Thr	Asp	Pro	1095	Ser	Leu	Ser	Pro	1100	Ser	Pro	Ala
1105	Leu	Pro	Pro	Ala	Pro	Gly	Thr	Glu	1110	Ser	Leu	Ser	Pro	1115	Pro	Pro	Ala
Ala	Leu	Pro	Pro	Ala	Pro	Gly	Thr	Glu	1120	Ser	Leu	Ser	Tyr	1125	Leu	Asn	Gly
Phe	Arg	Leu	Leu	Gln	Lys	Pro	Leu	Arg	1130	Trp	His	Asp	Ala	1135	Leu	Leu	Leu
1140	Leu	Leu	Gln	Lys	Pro	Leu	Arg	Trp	1145	His	Asp	Ala	Leu	1150	Leu	Leu	Leu
Cys	Glu	Ser	His	Asn	Ala	Ser	Leu	Ala	1155	Tyr	Val	Pro	Asp	1160	Pro	Tyr	Thr

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 Gln Ala Phe Leu Thr Gln Ala Arg Gly Leu Arg Thr Pro Leu Trp
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 Glu Glu Pro Leu Asn Tyr Val Gly Trp Gln Asp Gly Glu Pro Gln Gln
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 Pro Gly Gly Cys Thr Tyr Val Asp Val Asp Gly Ala Trp Arg Thr Thr
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 Ser Cys Asp Thr Lys Leu Gln Gly Ala Val Cys Gly Val Ser Ser Gly
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 Pro Pro Pro Pro Arg Arg Ile Ser Tyr His Gly Ser Cys Pro Gln Gly
 1250 1255 1260
 Leu Ala Asp Ser Ala Trp Ile Pro Phe Arg Glu His Cys Tyr Ser Phe
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 His Met Glu Leu Leu Leu Gly His Lys Glu Ala Arg Gln Arg Cys Gln
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 Arg Ala Gly Gly Ala Val Leu Ser Ile Leu Asp Glu Met Glu Asn Val
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 Phe Val Trp Glu His Leu Gln Ser Tyr Glu Gly Gln Ser Arg Gly Ala
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 Trp Leu Gly Met Asn Phe Asn Pro Lys Gly Gly Thr Leu Val Trp Gln
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 Asp Asn Thr Ala Val Asn Tyr Ser Asn Trp Gly Pro Pro Gly Leu Gly
 1345 1350 1355 1360
 Pro Ser Met Leu Ser His Asn Ser Cys Tyr Trp Ile Gln Ser Asn Ser
 1365 1370 1375
 Gly Leu Trp Arg Pro Gly Ala Cys Thr Asn Ile Thr Met Gly Val Val
 1380 1385 1390
 Cys Lys Leu Pro Arg Ala Glu Gln Ser Ser Phe Ser Pro Ser Ala Leu
 1395 1400 1405
 Pro Glu Asn Pro Ala Ala Leu Val Val Val Leu Met Ala Val Leu Leu
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 1425 1430 1435 1440
 Ser Ile Glu Arg Gly Ala Phe Glu Gly Ala Arg Tyr Ser Arg Ser Ser
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 35 40 45
 Thr Phe Ser Pro Tyr Glu His Gly Glu Val Phe Val Leu Asn Asp Gly
 50 55 60
 Gly Glu Val Asp Leu Asp Leu Gly Asn Tyr Glu Arg Phe Leu Asp Ile
 65 70 75 80
 Asn Leu Tyr Lys Asp Asn Asn Ile Thr Thr Gly Lys Ile Tyr Gln His
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 Val Ile Asn Lys Glu Arg Arg Gly Asp Tyr Leu Gly Lys Thr Val Gln
 100 105 110
 Val Val Pro His Ile Thr Asp Ala Val Gln Glu Trp Val Met Asn Gln

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 Gly Gly Thr Ile Gly Asp 135 Ile Glu Gly Met Pro Phe Val Glu Ala Phe
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 Val Ser Leu Val 165 Pro Gln Leu Ser Ala 170 Thr Gly Glu Gln Lys Thr Lys
 180 Pro Thr Gln Asn Ser Val Arg Ala Leu Arg Gly Leu Gly Leu Ser Pro
 195 Asp Leu Ile Val Cys Arg Ser 200 Ser Thr Pro Ile Glu Met Ala Val Lys
 210 Glu Lys Ile Ser Met Phe 215 Cys His Val Asn Pro 220 Gln Val Ile Cys
 225 Ile His Asp Val Ser 230 Ser Thr Tyr Arg Val Pro Val Leu Leu Glu Glu
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 260 Asp Ser Ala 275 Ser Asn Leu Leu Phe 280 Lys Trp Arg Asn Met Ala Asp Arg
 290 Tyr Glu Arg Leu Gln Lys Ile Cys Ser Ile Ala Leu Val Gly Lys Tyr
 305 Thr Lys Leu Arg Asp Cys 310 Tyr Ala Ser Val Phe Lys Ala Leu Glu His
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 335 Ile Asp Leu Glu Lys Ile Thr Glu Thr Glu Asp Pro Val Lys Phe His
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 385 Ala Arg Thr Lys Lys Ile Pro Phe Leu Gly Val Cys Leu Gly Met Gln
 390 Leu Ala Val Ile Glu Phe Ala Arg Asn Cys 400 Leu Asn Leu Lys Asp Ala
 410 Asp Ser Thr Glu Phe Arg Pro Asn Ala 425 Pro Val Pro Leu Val Ile Asp
 430 Met Pro Glu His Asn Pro Gly Asn Leu Gly Gly Thr Met Arg Leu Gly
 440 Ile Arg Arg Thr Val Phe Lys 455 Thr Glu Asn Ser Ile Leu Arg Lys Leu
 465 Tyr Gly Asp Val Pro Phe 470 Ile Glu Glu Arg His Arg His Arg Phe Glu
 480 Val Asn Pro Asn Leu Ile Lys Gln Phe Glu Gln Asn Asp Leu Ser Phe
 495 Val Gly Gln Asp Val Asp Gly Asp Arg 505 Met Glu Ile Ile Glu Leu Ala
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 530 Arg Pro Met Lys Pro Ser Pro 535 Pro Tyr Leu Gly Leu Leu Leu Ala Ala
 545 Thr Gly Asn Leu Asn Ala 550 Tyr Leu Gln Gln Gly Cys Lys Leu Ser Ser
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<213> Homo sapiens

<400> 69

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Pro Cys Phe Gln Asn Ser Leu Leu Ala Trp Val Pro Cys Ile Tyr Leu
 35      40      45
Trp Val Ala Leu Pro Cys Tyr Leu Leu Tyr Leu Arg His His Cys Arg
 50      55      60
Gly Tyr Ile Ile Leu Ser His Leu Ser Lys Leu Lys Met Val Leu Gly
 65      70      75
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 85      90      95
Gly Leu Val His Gly Arg Ala Pro Ala Pro Val Phe Phe Val Thr Pro
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Leu Val Val Gly Val Thr Met Leu Leu Ala Thr Leu Leu Ile Gln Tyr
115      120      125
Glu Arg Leu Gln Gly Val Gln Ser Ser Gly Val Leu Ile Ile Phe Trp
130      135      140
Phe Leu Cys Val Val Cys Ala Ile Val Pro Phe Arg Ser Lys Ile Leu
145      150      155
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165      170      175
Phe Tyr Ile His Phe Ala Leu Val Leu Ser Ala Leu Ile Leu Ala Cys
180      185      190
Phe Arg Glu Lys Pro Pro Phe Phe Ser Ala Lys Asn Val Asp Pro Asn
195      200      205
Pro Tyr Pro Glu Thr Ser Ala Gly Phe Leu Ser Arg Leu Phe Phe Trp
210      215      220
Trp Phe Thr Lys Met Ala Ile Tyr Gly Tyr Arg His Pro Leu Glu Glu
225      230      235
Lys Asp Leu Trp Ser Leu Lys Glu Glu Asp Arg Ser Gln Met Val Val
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Gln Gln Leu Leu Glu Ala Trp Arg Lys Gln Glu Lys Gln Thr Ala Arg
260      265      270
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275      280      285
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290      295      300
Ala Leu Leu Ala Thr Phe Gly Ser Ser Phe Leu Ile Ser Ala Cys Phe
305      310      315
Lys Leu Ile Gln Asp Leu Leu Ser Phe Ile Asn Pro Gln Leu Leu Ser
325      330      335
Ile Leu Ile Arg Phe Ile Ser Asn Pro Met Ala Pro Ser Trp Trp Gly
340      345      350
Phe Leu Val Ala Gly Leu Met Phe Leu Cys Ser Met Met Gln Ser Leu
355      360      365
Ile Leu Gln His Tyr Tyr His Tyr Ile Phe Val Thr Gly Val Lys Phe
370      375      380
Arg Thr Gly Ile Met Gly Val Ile Tyr Arg Lys Ala Leu Val Ile Thr
385      390      395
Asn Ser Val Lys Arg Ala Ser Thr Val Gly Glu Ile Val Asn Leu Met
405      410      415
Ser Val Asp Ala Gln Arg Phe Met Asp Leu Ala Pro Phe Leu Asn Leu
420      425      430
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435      440      445
Gln Asn Leu Gly Pro Ser Val Leu Ala Gly Val Ala Phe Met Val Leu
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Phe	Leu	Lys	Gln	Val	Glu	Gly	Ile	Arg	Gln	Gly	Glu	Leu	Gln	Leu	Leu
Arg	Thr	Ala	Ala	Tyr	Leu	His	Thr	Thr	Thr	Thr	Phe	Thr	Trp	Met	Cys
Ser	Pro	Phe	Leu	Val	Thr	Leu	Ile	Thr	Leu	Trp	Val	Tyr	Val	Tyr	Val
Asp	Pro	Asn	Asn	Val	Leu	Asp	Ala	Glu	Lys	Ala	Phe	Val	Ser	Val	Ser
Leu	Phe	Asn	Ile	Leu	Arg	Leu	Pro	Leu	Asn	Met	Leu	Pro	Gln	Leu	Ile
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Leu	Ser	Gln	Glu	Glu	Leu	Asp	Pro	Gln	Ser	Val	Glu	Arg	Lys	Thr	Ile
Ser	Pro	Gly	Tyr	Ala	Ile	Thr	Ile	His	Ser	Gly	Thr	Phe	Thr	Trp	Ala
Gln	Asp	Leu	Pro	Pro	Thr	Leu	His	Ser	Leu	Asp	Ile	Gln	Val	Pro	Lys
Gly	Ala	Leu	Val	Ala	Val	Val	Gly	Pro	Val	Gly	Cys	Gly	Lys	Ser	Ser
Leu	Val	Ser	Ala	Leu	Leu	Gly	Glu	Met	Glu	Lys	Leu	Glu	Gly	Lys	Val
His	Met	Lys	Gly	Ser	Val	Ala	Tyr	Val	Pro	Gln	Gln	Ala	Trp	Ile	Gln
Asn	Cys	Thr	Leu	Gln	Glu	Asn	Val	Leu	Phe	Gly	Lys	Ala	Leu	Asn	Pro
Lys	Arg	Tyr	Gln	Gln	Thr	Leu	Glu	Ala	Cys	Ala	Leu	Leu	Ala	Asp	Leu
Glu	Met	Leu	Pro	Gly	Gly	Asp	Gln	Thr	Glu	Ile	Gly	Glu	Lys	Gly	Ile
Asn	Leu	Ser	Gly	Gly	Gln	Arg	Gln	Arg	Val	Ser	Leu	Ala	Arg	Ala	Val
Tyr	Ser	Asp	Ala	Asp	Ile	Phe	Leu	Leu	Asp	Asp	Pro	Leu	Ser	Ala	Val
Asp	Ser	His	Val	Ala	Lys	His	Ile	Phe	Asp	His	Val	Ile	Gly	Pro	Glu
Gly	Val	Leu	Ala	Gly	Lys	Thr	Arg	Val	Leu	Val	Thr	His	Gly	Ile	Ser
Phe	Leu	Pro	Gln	Thr	Asp	Phe	Ile	Ile	Val	Leu	Ala	Asp	Gly	Gln	Val
Ser	Glu	Met	Gly	Pro	Tyr	Pro	Ala	Leu	Leu	Gln	Arg	Asn	Gly	Ser	Phe
Ala	Asn	Phe	Leu	Cys	Asn	Tyr	Ala	Pro	Asp	Glu	Asp	Gln	Gly	His	Leu
Glu	Asp	Ser	Trp	Thr	Ala	Leu	Glu	Gly	Ala	Glu	Asp	Lys	Glu	Ala	Leu
Leu	Ile	Glu	Asp	Thr	Leu	Ser	Asn	His	Thr	Asp	Leu	Thr	Asp	Asn	Asp
Pro	Val	Thr	Tyr	Val	Val	Gln	Lys	Gln	Phe	Met	Arg	Gln	Leu	Ser	Ala
Leu	Ser	Ser	Asp	Gly	Glu	Gly	Gln	Gly	Arg	Pro	Val	Pro	Arg	Arg	His
Leu	Gly	Pro	Ser	Glu	Lys	Val	Gln	Val	Thr	Glu	Ala	Lys	Ala	Asp	Gly
Ala	Leu	Thr	Gln	Glu	Glu	Lys	Ala	Ala	Ile	Gly	Thr	Val	Glu	Leu	Ser
Val	Phe	Trp	Asp	Tyr	Ala	Lys	Ala	Val	Gly	Leu	Cys	Thr	Thr	Leu	Ala
Ile	Cys	Leu	Leu	Tyr	Val	Gly	Gln	Ser	Ala	Ala	Ala	Ile	Gly	Ala	Asn

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 Val Trp Leu Ser Ala Trp Thr Asn Asp Ala Met Ala Asp Ser Arg Gln
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 Asn Asn Thr Ser Leu Arg Leu Gly Val Tyr Ala Ala Leu Gly Ile Leu
 1010 1015 1020
 Gln Gly Phe Leu Val Met Leu Ala Ala Met Ala Met Ala Ala Gly Gly
 1025 1030 1035 1040
 Ile Gln Ala Ala Arg Val Leu His Gln Ala Leu Leu His Asn Lys Ile
 1045 1050 1055
 Arg Ser Pro Gln Ser Phe Phe Asp Thr Thr Pro Ser Gly Arg Ile Leu
 1060 1065 1070
 Asn Cys Phe Ser Lys Asp Ile Tyr Val Val Asp Glu Val Leu Ala Pro
 1075 1080 1085
 Val Ile Leu Met Leu Leu Asn Ser Phe Phe Asn Ala Ile Ser Thr Leu
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 Val Val Ile Met Ala Ser Thr Pro Leu Phe Thr Val Val Ile Leu Pro
 1105 1110 1115 1120
 Leu Ala Val Leu Tyr Thr Leu Val Gln Arg Phe Tyr Ala Ala Thr Ser
 1125 1130 1135
 Arg Gln Leu Lys Arg Leu Glu Ser Val Ser Arg Ser Pro Ile Tyr Ser
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 His Phe Ser Glu Thr Val Thr Gly Ala Ser Val Ile Arg Ala Tyr Asn
 1155 1160 1165
 Arg Ser Arg Asp Phe Glu Ile Ile Ser Asp Thr Lys Val Asp Ala Asn
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 <213> Homo sapiens

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 35 40 45
 Asn Leu Ile Val Pro Gly Gly Val Lys Thr Ile Glu Ala Asn Gly Arg
 50 55 60
 Met Val Ile Pro Gly Gly Ile Asp Val Asn Thr Tyr Leu Gln Lys Pro
 65 70 75 80
 Ser Gln Gly Met Thr Ala Ala Asp Asp Phe Phe Gln Gly Thr Arg Ala
 85 90 95
 Ala Leu Val Gly Gly Thr Thr Met Ile Ile Asp His Val Val Pro Glu
 100 105 110
 Pro Gly Ser Ser Leu Leu Thr Ser Phe Glu Lys Trp His Glu Ala Ala
 115 120 125
 Asp Thr Lys Ser Cys Cys Asp Tyr Ser Leu His Val Asp Ile Thr Ser
 130 135 140
 Trp Tyr Asp Gly Val Arg Glu Glu Leu Glu Val Leu Val Gln Asp Lys
 145 150 155 160
 Gly Val Asn Ser Phe Gln Val Tyr Met Ala Tyr Lys Asp Val Tyr Gln
 165 170 175
 Met Ser Asp Ser Gln Leu Tyr Glu Ala Phe Thr Phe Leu Lys Gly Leu
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Ala	Leu	Ser	210	Arg	Pro	Glu	Glu	Leu	215	Glu	Ala	Glu	Ala	Val	220	Phe	Arg	Ala
Ile	Thr	Ile	225	Ala	Gly	Arg	Ile	Asn	230	Cys	Pro	Val	Tyr	Ile	235	Thr	Lys	Val
Met	Ser	Lys	240	Ser	Ala	Ala	Asp	Ile	245	Ile	Ala	Leu	Ala	Arg	250	Lys	Lys	Gly
Pro	Leu	Val	255	Phe	Gly	Glu	Pro	Ile	260	Ala	Ala	Ser	Leu	Gly	265	Thr	Asp	Gly
Thr	His	Tyr	270	Trp	Ser	Lys	Asn	Trp	275	Ala	Lys	Ala	Ala	Ala	280	Phe	Val	Thr
Ser	Pro	Pro	285	Leu	Ser	Pro	Asp	Pro	290	Thr	Thr	Pro	Asp	Tyr	295	Leu	Thr	Ser
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Lys	Ala	Val	345	Ala	Thr	Gly	Lys	Met	350	Asp	Glu	Asn	Gln	Phe	355	Val	Ala	Val
Thr	Ser	Thr	360	Asn	Ala	Ala	Lys	Ile	365	Phe	Asn	Leu	Tyr	Pro	370	Arg	Lys	Gly
Arg	Ile	Ala	375	Val	Gly	Ser	Asp	Ala	380	Val	Val	Ile	Trp	Asp	385	Pro	Asp	Pro
Lys	Leu	Lys	390	Thr	Ile	Thr	Ala	Lys	395	His	Lys	Ser	Ala	Val	400	Glu	Tyr	Tyr
Asn	Ile	Phe	405	Glu	Gly	Met	Glu	Cys	410	Gly	Ser	Pro	Leu	Val	415	Val	Val	Ile
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Gly	Met	Gly	435	Arg	Phe	Ile	Pro	Arg	440	Lys	Ala	Phe	Pro	Glu	445	His	Leu	Tyr
Gln	Arg	Val	445	Lys	Ile	Arg	Asn	Lys	450	Val	Phe	Gly	Leu	Gln	455	Gly	Val	Ser
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Tyr	Ala	Thr	475	Pro	Ala	Pro	Ser	Ala	480	Lys	Ser	Ser	Pro	Ser	485	Lys	His	Gln
Pro	Pro	Pro	490	Ile	Arg	Asn	Leu	His	495	Gln	Ser	Asn	Phe	Ser	500	Leu	Ser	Gly
Ala	Gln	Ile	505	Asp	Asp	Asn	Asn	Pro	510	Arg	Arg	Thr	Gly	His	515	Arg	Ile	Val
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<211> 351

<212> PRT

<213> Homo sapiens

<400> 71

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			20					25					30		
Leu	Tyr	Leu	Ser	Phe	Ala	Val	Asp	Thr	Gly	Cys	Leu	Ala	Val	Thr	
		35				40					45				
Pro	Gly	Tyr	Leu	Phe	Pro	Pro	Asn	Phe	Trp	Ile	Trp	Thr	Leu	Ala	Thr

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Glu	Leu	Leu	Ile 100	Phe	Phe	Ser	Val	Val 105	Asn	Val	Ser	Val	Gly 110	Leu	Leu
Gly	Ala	Phe 115	Ala	Tyr	Leu	Leu	Thr 120	Tyr	Met	Ala	Ser	Phe 125	Asn	Leu	Val
Tyr	Leu 130	Phe	Thr	Val	Arg	Ile 135	His	Gly	Ala	Leu	Gly 140	Phe	Leu	Gly	Gly
Val 145	Leu	Val	Ala	Leu	Lys 150	Gln	Thr	Met	Gly	Asp 155	Cys	Val	Val	Leu	Arg 160
Val	Pro	Gln	Val	Arg 165	Val	Ser	Val	Met	Pro 170	Met	Leu	Leu	Leu	Ala 175	Leu
Leu	Leu	Leu	Leu 180	Arg	Leu	Ala	Thr	Leu 185	Leu	Gln	Ser	Pro	Ala 190	Leu	Ala
Ser	Tyr	Gly 195	Phe	Gly	Leu	Leu	Ser 200	Ser	Trp	Val	Tyr	Leu 205	Arg	Phe	Tyr
Gln	Arg 210	His	Ser	Arg	Gly	Arg 215	Gly	Asp	Met	Ala	Asp 220	His	Phe	Ala	Phe
Ala 225	Thr	Phe	Phe	Pro	Glu 230	Ile	Leu	Gln	Pro	Val 235	Val	Gly	Leu	Leu	Ala 240
Asn	Leu	Val	His 245	Ser	Leu	Leu	Val	Lys	Val 250	Lys	Ile	Cys	Gln	Lys 255	Thr
Val	Lys	Arg	Tyr 260	Asp	Val	Gly	Ala	Pro 265	Ser	Ser	Ile	Thr	Ile 270	Ser	Leu
Pro	Gly	Thr 275	Asp	Pro	Gln	Asp	Ala 280	Glu	Arg	Arg	Arg	Gln 285	Leu	Ala	Leu
Lys	Ala 290	Leu	Asn	Glu	Arg	Leu 295	Lys	Arg	Val	Glu	Asp 300	Gln	Ser	Ile	Trp
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Pro	Leu	Pro	Ser	Asp 325	Lys	Ala	Pro	Thr	Pro 330	Pro	Gly	Lys	Gly	Ala 335	Ala
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Tyr	Pro	Leu 35	Val	Arg	Gln	Cys	Leu 40	Ala	Pro	Ala	Arg	Gly 45	Leu	Gln	Ala
Pro	Ala 50	Gly	Glu	Pro	Thr	Gln 55	Glu	Ala	Ser	Gly	Val 60	Ala	Ala	Ala	Lys
Ala 65	Gly	Met	Asn	Arg	Val 70	Phe	Leu	Gln	Arg	Leu 75	Leu	Trp	Leu	Leu	Arg 80
Leu	Leu	Phe	Pro	Arg 85	Val	Leu	Cys	Arg	Glu 90	Thr	Gly	Leu	Leu	Ala 95	Leu
His	Ser	Ala	Ala 100	Leu	Val	Ser	Arg	Thr 105	Phe	Leu	Ser	Val	Tyr 110	Val	Ala
Arg	Leu	Asp 115	Gly	Arg	Leu	Ala	Arg 120	Cys	Ile	Val	Arg	Lys 125	Asp	Pro	Arg
Ala	Phe 130	Gly	Trp	Gln	Leu	Leu 135	Gln	Trp	Leu	Leu	Ile 140	Ala	Leu	Pro	Ala
Thr	Phe	Val	Asn	Ser	Ala	Ile	Arg	Tyr	Leu	Glu	Gly	Gln	Leu	Ala	Leu

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145					150					155				160
Ser	Phe	Arg	Ser	Arg	Leu	Val	Ala	His	Ala	Tyr	Arg	Leu	Tyr	Ser
				165					170					175
Gln	Gln	Thr	Tyr	Tyr	Arg	Val	Ser	Asn	Met	Asp	Gly	Arg	Leu	Asn
			180					185					190	
Pro	Asp	Gln	Ser	Leu	Thr	Glu	Asp	Val	Val	Ala	Phe	Ala	Ala	Val
		195					200					205		
Ala	His	Leu	Tyr	Ser	Asn	Leu	Thr	Lys	Pro	Leu	Leu	Asp	Val	Val
	210					215					220			
Thr	Ser	Tyr	Thr	Leu	Leu	Arg	Ala	Ala	Arg	Ser	Arg	Gly	Ala	Thr
225					230					235				240
Ala	Trp	Pro	Ser	Ala	Ile	Ala	Gly	Leu	Val	Val	Phe	Leu	Thr	Asn
				245					250					255
Val	Leu	Arg	Ala	Phe	Ser	Pro	Lys	Phe	Gly	Glu	Leu	Val	Ala	Glu
			260					265					270	
Ala	Arg	Arg	Lys	Gly	Glu	Leu	Arg	Tyr	Met	His	Ser	Arg	Val	Ala
		275					280					285		
Asn	Ser	Glu	Glu	Ile	Ala	Phe	Tyr	Gly	Gly	His	Glu	Val	Glu	Ala
	290					295					300			
Leu	Leu	Gln	Arg	Ser	Tyr	Gln	Asp	Leu	Ala	Ser	Gln	Ile	Asn	Ile
305					310					315				320
Leu	Leu	Glu	Arg	Leu	Trp	Tyr	Val	Met	Leu	Glu	Gln	Phe	Leu	Lys
			325						330					335
Tyr	Val	Trp	Ser	Ala	Ser	Gly	Leu	Leu	Met	Val	Ala	Val	Pro	Ile
			340					345					350	
Thr	Ala	Thr	Gly	Tyr	Ser	Glu	Ser	Asp	Ala	Glu	Ala	Val	Lys	Ala
		355					360					365		
Ala	Leu	Glu	Lys	Lys	Glu	Glu	Glu	Leu	Val	Ser	Glu	Arg	Thr	Glu
	370					375					380			
Phe	Thr	Ile	Ala	Arg	Asn	Leu	Leu	Thr	Ala	Ala	Ala	Asp	Ala	Glu
385					390					395				400
Arg	Ile	Met	Ser	Ser	Tyr	Lys	Glu	Val	Thr	Glu	Leu	Ala	Gly	Thr
				405					410				415	
Ala	Arg	Val	His	Glu	Met	Phe	Gln	Val	Phe	Glu	Asp	Val	Gln	Cys
			420					425					430	
His	Phe	Lys	Arg	Pro	Arg	Glu	Leu	Glu	Asp	Ala	Gln	Ala	Gly	Ser
		435					440					445		
Thr	Ile	Gly	Arg	Ser	Gly	Val	Arg	Val	Glu	Gly	Pro	Leu	Lys	Arg
	450					455					460			
Gly	Gln	Val	Val	Asp	Val	Glu	Gln	Gly	Ile	Ile	Cys	Glu	Asn	Ile
465					470					475				480
Ile	Val	Thr	Pro	Ser	Gly	Glu	Val	Val	Val	Ala	Ser	Leu	Asn	Arg
				485					490					495
Val	Glu	Glu	Gly	Met	His	Leu	Leu	Ile	Thr	Gly	Pro	Asn	Gly	Gly
			500					505					510	
Lys	Ser	Ser	Leu	Phe	Arg	Ile	Leu	Gly	Gly	Leu	Trp	Pro	Thr	Tyr
		515					520					525		
Gly	Val	Leu	Tyr	Lys	Pro	Pro	Pro	Gln	Arg	Met	Phe	Tyr	Ile	Gln
	530					535					540			
Arg	Pro	Tyr	Met	Ser	Val	Gly	Ser	Leu	Arg	Asp	Gln	Val	Ile	Pro
545					550					555				560
Asp	Ser	Val	Glu	Asp	Met	Gln	Arg	Lys	Gly	Tyr	Ser	Glu	Gln	Leu
				565					570					575
Glu	Ala	Ile	Leu	Asp	Val	Val	His	Leu	His	His	Ile	Leu	Gln	Glu
			580					585					590	
Gly	Gly	Trp	Glu	Ala	Met	Cys	Asp	Trp	Lys	Asp	Val	Leu	Ser	Gly
		595					600					605		
Glu	Lys	Gln	Arg	Ile	Gly	Met	Ala	Arg	Met	Phe	Tyr	His	Arg	Lys
	610					615					620			
Tyr	Ala	Leu	Leu	Asp	Glu	Cys	Thr	Ser	Ala	Val	Ser	Ile	Asp	Val
625					630					635				640
Gly	Lys	Ile	Phe	Gln	Ala	Ala	Lys	Asp	Ala	Gly	Ile	Ala	Leu	Ser
				645					650					655

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Ile Thr His Arg Pro Ser Leu Trp Lys Tyr His Thr His Leu Leu Gln
 660 665 670
 Phe Asp Gly Glu Gly Gly Trp Lys Phe Glu Lys Leu Asp Ser Ala Ala
 675 680 685
 Arg Leu Ser Leu Thr Glu Glu Lys Gln Arg Leu Glu Gln Gln Leu Ala
 690 695 700
 Gly Ile Pro Lys Met Gln Arg Arg Leu Gln Glu Leu Cys Gln Ile Leu
 705 710 715 720
 Gly Glu Ala Val Ala Pro Ala His Val Pro Ala Pro Ser Pro Gln Gly
 725 730 735
 Pro Gly Gly Leu Gln Gly Ala Ser Thr
 740 745

<210> 73

<211> 334

<212> PRT

<213> Homo sapiens

<400> 73

Met Asp Leu Asp Val Val Asn Met Phe Val Ile Ala Gly Gly Thr Leu
 1 5 10 15
 Ala Ile Pro Ile Leu Ala Phe Val Ala Ser Phe Leu Leu Trp Pro Ser
 20 25 30
 Ala Leu Ile Arg Ile Tyr Tyr Trp Tyr Trp Arg Arg Thr Leu Gly Met
 35 40 45
 Gln Val Arg Tyr Val His His Glu Asp Tyr Gln Phe Cys Tyr Ser Phe
 50 55 60
 Arg Gly Arg Pro Gly His Lys Pro Ser Ile Leu Met Leu His Gly Phe
 65 70 75 80
 Ser Ala His Lys Asp Met Trp Leu Ser Val Val Lys Phe Leu Pro Lys
 85 90 95
 Asn Leu His Leu Val Cys Val Asp Met Pro Gly His Glu Gly Thr Thr
 100 105 110
 Arg Ser Ser Leu Asp Asp Leu Ser Ile Asp Gly Gln Val Lys Arg Ile
 115 120 125
 His Gln Phe Val Glu Cys Leu Lys Leu Asn Lys Lys Pro Phe His Leu
 130 135 140
 Val Gly Thr Ser Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr
 145 150 155 160
 Tyr Pro Ser Asp Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu
 165 170 175
 Gln Tyr Ser Thr Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln
 180 185 190
 Gly Ser Ala Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu
 195 200 205
 Glu Met Ser Glu Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val
 210 215 220
 Pro Gln Gln Ile Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn
 225 230 235 240
 Asn Phe Tyr Arg Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg
 245 250 255
 Tyr Ser Leu His Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile
 260 265 270
 Ile Trp Gly Lys Gln Asp Gln Val Leu Asp Val Ser Gly Ala Asp Met
 275 280 285
 Leu Ala Lys Ser Ile Ala Asn Cys Gln Val Glu Leu Glu Asn Cys
 290 295 300
 Gly His Ser Val Val Met Glu Arg Pro Arg Lys Thr Ala Lys Leu Ile
 305 310 315 320
 Ile Asp Phe Leu Ala Ser Val His Asn Thr Asp Asn Asn Lys
 325 330

<210> 74

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<211> 559

<212> PRT

<213> Homo sapiens

<400> 74

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Ser Asp Arg Leu Leu Ile Arg Gly Gly Arg Ile Val Asn Asp Asp Gln
 1      5      10      15
Ser Phe Tyr Ala Asp Val His Val Glu Asp Gly Leu Ile Lys Gln Ile
 20      25      30
Gly Glu Asn Leu Ile Val Pro Gly Gly Ile Lys Thr Ile Asp Ala His
 35      40      45
Gly Leu Met Val Leu Pro Gly Gly Val Asp Val His Thr Arg Leu Gln
 50      55      60
Met Pro Val Leu Gly Met Thr Pro Ala Asp Asp Phe Cys Gln Gly Thr
 65      70      75      80
Lys Ala Ala Leu Ala Gly Gly Thr Thr Met Ile Leu Asp His Val Phe
 85      90      95
Pro Asp Thr Gly Val Ser Leu Leu Ala Ala Tyr Glu Gln Trp Arg Glu
100      105      110
Arg Ala Asp Ser Ala Ala Cys Cys Asp Tyr Ser Leu His Val Asp Ile
115      120      125
Thr Arg Trp His Glu Ser Ile Lys Glu Glu Leu Glu Ala Leu Val Lys
130      135      140
Glu Lys Gly Val Asn Ser Phe Leu Val Phe Met Ala Tyr Lys Asp Arg
145      150      155      160
Cys Gln Cys Ser Asp Ser Gln Met Tyr Glu Ile Phe Ser Ile Ile Arg
165      170      175
Asp Leu Gly Ala Leu Ala Gln Val His Ala Glu Asn Gly Asp Ile Val
180      185      190
Glu Glu Glu Gln Lys Arg Leu Leu Glu Leu Gly Ile Thr Gly Pro Glu
195      200      205
Gly His Val Leu Ser His Pro Glu Glu Val Glu Ala Glu Ala Val Tyr
210      215      220
Arg Ala Val Thr Ile Ala Lys Gln Ala Asn Cys Pro Leu Tyr Val Thr
225      230      235      240
Lys Val Met Ser Lys Gly Ala Ala Asp Ala Ile Ala Gln Ala Lys Arg
245      250      255
Arg Gly Val Val Phe Gly Glu Pro Ile Thr Ala Ser Leu Gly Thr
260      265      270
Asp Gly Ser His Tyr Trp Ser Lys Asn Trp Ala Lys Ala Ala Ala Phe
275      280      285
Val Thr Ser Pro Pro Val Asn Pro Asp Pro Thr Thr Ala Asp His Leu
290      295      300
Thr Cys Leu Leu Ser Ser Gly Asp Leu Gln Val Thr Gly Ser Ala His
305      310      315      320
Cys Thr Phe Thr Thr Ala Gln Lys Ala Val Gly Lys Asp Asn Phe Ala
325      330      335
Leu Ile Pro Glu Gly Thr Asn Gly Ile Glu Glu Arg Met Ser Met Val
340      345      350
Trp Glu Lys Cys Val Ala Ser Gly Lys Met Asp Glu Asn Glu Phe Val
355      360      365
Ala Val Thr Ser Thr Asn Ala Ala Lys Ile Phe Asn Phe Tyr Pro Arg
370      375      380
Lys Gly Arg Val Ala Val Gly Ser Asp Ala Asp Leu Val Ile Trp Asn
385      390      395      400
Pro Lys Ala Thr Lys Ile Ile Ser Ala Lys Thr His Asn Leu Asn Val
405      410      415
Glu Tyr Asn Ile Phe Glu Gly Val Glu Cys Arg Gly Ala Pro Ala Val
420      425      430
Val Ile Ser Gln Gly Arg Val Ala Leu Glu Asp Gly Lys Met Phe Val
435      440      445
Thr Pro Gly Ala Gly Arg Phe Val Pro Arg Lys Thr Phe Pro Asp Phe
450      455      460

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Val Tyr Lys Arg Ile Lys Ala Arg Asn Arg Leu Ala Glu Ile His Gly
 465 470 475 480
 Val Pro Arg Gly Leu Tyr Asp Gly Pro Val His Glu Val Met Val Pro
 485 490 495
 Ala Lys Pro Gly Ser Gly Ala Pro Ala Arg Ala Ser Cys Pro Gly Lys
 500 505 510
 Ile Ser Val Pro Pro Val Arg Asn Leu His Gln Ser Gly Phe Ser Leu
 515 520 525
 Ser Gly Ser Gln Ala Asp Asp His Ile Ala Arg Arg Thr Ala Gln Lys
 530 535 540
 Ile Met Ala Pro Pro Gly Gly Arg Ser Asn Ile Thr Ser Leu Ser
 545 550 555

<210> 75

<211> 743

<212> PRT

<213> Homo sapiens

<400> 75

Met Ala Arg Arg Ser Val Leu Tyr Phe Ile Leu Leu Asn Ala Leu Ile
 1 5 10 15
 Asn Lys Gly Gln Ala Cys Phe Cys Asp His Tyr Ala Trp Thr Gln Trp
 20 25 30
 Thr Ser Cys Ser Lys Thr Cys Asn Ser Gly Thr Gln Ser Arg His Arg
 35 40 45
 Gln Ile Val Val Asp Lys Tyr Gln Glu Asn Phe Cys Glu Gln Ile
 50 55 60
 Cys Ser Lys Gln Glu Thr Arg Glu Cys Asn Trp Gln Arg Cys Pro Ile
 65 70 75 80
 Asn Cys Leu Leu Gly Asp Phe Gly Pro Trp Ser Asp Cys Asp Pro Cys
 85 90 95
 Ile Glu Lys Gln Gly Thr Ser Asn Phe His Tyr Leu Asn His Leu Phe
 100 105 110
 Thr Ser Phe Phe His Leu Asp Ser Ser Phe Ile Arg Ile His Lys Val
 115 120 125
 Met Lys Val Leu Asn Phe Thr Thr Lys Ala Lys Asp Leu His Leu Ser
 130 135 140
 Asp Val Phe Leu Lys Ala Leu Asn His Leu Pro Leu Glu Tyr Asn Ser
 145 150 155 160
 Ala Leu Tyr Ser Arg Ile Phe Asp Asp Phe Gly Thr His Tyr Phe Thr
 165 170 175
 Ser Gly Ser Leu Gly Gly Val Tyr Asp Leu Leu Tyr Gln Phe Ser Ser
 180 185 190
 Glu Glu Leu Lys Asn Ser Gly Leu Thr Glu Glu Glu Ala Lys His Cys
 195 200 205
 Val Arg Ile Glu Thr Lys Lys Arg Val Leu Phe Ala Lys Lys Thr Lys
 210 215 220
 Val Glu His Arg Cys Thr Thr Asn Lys Leu Ser Glu Lys His Glu Gly
 225 230 235 240
 Ser Phe Ile Gln Gly Ala Glu Lys Ser Ile Ser Leu Ile Arg Gly Gly
 245 250 255
 Arg Ser Glu Tyr Gly Ala Ala Leu Ala Trp Glu Lys Gly Ser Ser Gly
 260 265 270
 Leu Glu Glu Lys Thr Phe Ser Glu Trp Leu Glu Ser Val Lys Glu Asn
 275 280 285
 Pro Ala Val Ile Asp Phe Glu Leu Ala Pro Ile Val Asp Leu Val Arg
 290 295 300
 Asn Ile Pro Cys Ala Val Thr Lys Arg Asn Asn Leu Arg Lys Ala Leu
 305 310 315 320
 Gln Glu Tyr Ala Ala Lys Phe Asp Pro Cys Gln Cys Ala Pro Cys Pro
 325 330 335
 Asn Asn Gly Arg Pro Thr Leu Ser Gly Thr Glu Cys Leu Cys Val Cys
 340 345 350

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Gln Ser Gly Thr Tyr Gly Glu Asn Cys Glu Lys Gln Ser Pro Asp Tyr
 355 360 365
 Lys Ser Asn Ala Val Asp Gly Gln Trp Gly Cys Trp Ser Ser Trp Ser
 370 375 380
 Thr Cys Asp Ala Thr Tyr Lys Arg Ser Arg Thr Arg Glu Cys Asn Asn
 385 390 395 400
 Pro Ala Pro Gln Arg Gly Gly Lys Arg Cys Glu Gly Glu Lys Arg Gln
 405 410 415
 Glu Glu Asp Cys Thr Phe Ser Ile Met Glu Asn Asn Gly Gln Pro Cys
 420 425 430
 Ile Asn Asp Asp Glu Glu Met Lys Glu Val Asp Leu Pro Glu Ile Glu
 435 440 445
 Ala Asp Ser Gly Cys Pro Gln Pro Val Pro Pro Glu Asn Gly Phe Ile
 450 455 460
 Arg Asn Glu Lys Gln Leu Tyr Leu Val Gly Glu Asp Val Glu Ile Ser
 465 470 475 480
 Cys Leu Thr Gly Phe Glu Thr Val Gly Tyr Gln Tyr Phe Arg Cys Leu
 485 490 495
 Pro Asp Gly Thr Trp Arg Gln Gly Asp Val Glu Cys Gln Arg Thr Glu
 500 505 510
 Cys Ile Lys Pro Val Val Gln Glu Val Leu Thr Ile Thr Pro Phe Gln
 515 520 525
 Arg Leu Tyr Arg Ile Gly Glu Ser Ile Glu Leu Thr Cys Pro Lys Gly
 530 535 540
 Phe Val Val Ala Gly Pro Ser Arg Tyr Thr Cys Gln Gly Asn Ser Trp
 545 550 555 560
 Thr Pro Pro Ile Ser Asn Ser Leu Thr Cys Glu Lys Asp Thr Leu Thr
 565 570 575
 Lys Leu Lys Gly His Cys Gln Leu Gly Gln Lys Gln Ser Gly Ser Glu
 580 585 590
 Cys Ile Cys Met Ser Pro Glu Glu Asp Cys Ser His His Ser Glu Asp
 595 600 605
 Leu Cys Val Phe Asp Thr Asp Ser Asn Asp Tyr Phe Thr Ser Pro Ala
 610 615 620
 Cys Lys Phe Leu Ala Glu Lys Cys Leu Asn Asn Gln Gln Leu His Phe
 625 630 635 640
 Leu His Ile Gly Ser Cys Gln Asp Gly Arg Gln Leu Glu Trp Gly Leu
 645 650 655
 Glu Arg Thr Arg Leu Ser Ser Asn Ser Thr Lys Lys Glu Ser Cys Gly
 660 665 670
 Tyr Asp Thr Cys Tyr Asp Trp Glu Lys Cys Ser Ala Ser Thr Ser Lys
 675 680 685
 Cys Val Cys Leu Leu Pro Pro Gln Cys Phe Lys Gly Gly Asn Gln Leu
 690 695 700
 Tyr Cys Val Lys Met Gly Ser Ser Thr Ser Glu Lys Thr Leu Asn Ile
 705 710 715 720
 Cys Glu Val Gly Thr Ile Arg Cys Ala Asn Arg Lys Met Glu Ile Leu
 725 730 735
 His Pro Gly Lys Cys Leu Ala
 740

<210> 76

<211> 321

<212> PRT

<213> Homo sapiens

<400> 76

Met Glu Arg Lys Asn Gln Thr Ala Ile Thr Glu Phe Ile Ile Leu Gly
 1 5 10 15
 Phe Ser Asn Leu Asn Glu Leu Gln Phe Leu Leu Phe Thr Ile Phe Phe
 20 25 30
 Leu Thr Tyr Phe Cys Thr Leu Gly Gly Asn Ile Leu Ile Ile Leu Thr
 35 40 45

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Thr Val Thr Asp Pro His Leu His Thr Pro Met Tyr Tyr Phe Leu Gly
50 55 60
Asn Leu Ala Phe Ile Asp Ile Cys Tyr Thr Thr Ser Asn Val Pro Gln
65 70 75 80
Met Met Val His Leu Leu Ser Lys Lys Lys Ser Ile Ser Tyr Val Gly
85 90 95
Cys Val Val Gln Leu Phe Ala Phe Val Phe Phe Val Gly Ser Glu Cys
100 105 110
Leu Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys Asn
115 120 125
Pro Leu Arg Tyr Ser Val Ile Leu Ser Lys Val Leu Cys Asn Gln Leu
130 135 140
Ala Ala Ser Cys Trp Ala Ala Gly Phe Leu Asn Ser Val Val His Thr
145 150 155 160
Val Leu Thr Phe Cys Leu Pro Phe Cys Gly Asn Asn Gln Ile Asn Tyr
165 170 175
Phe Phe Cys Asp Ile Pro Pro Leu Leu Ile Leu Ser Cys Gly Asn Thr
180 185 190
Ser Val Asn Glu Leu Ala Leu Leu Ser Thr Gly Val Phe Ile Gly Trp
195 200 205
Thr Pro Phe Leu Cys Ile Val Leu Ser Tyr Ile Cys Ile Ile Ser Thr
210 215 220
Ile Leu Arg Ile Gln Ser Ser Glu Gly Arg Arg Lys Ala Phe Ser Thr
225 230 235 240
Cys Ala Ser His Leu Ala Ile Val Phe Leu Phe Tyr Gly Ser Ala Ile
245 250 255
Phe Thr Tyr Val Arg Pro Ile Ser Thr Tyr Ser Leu Lys Lys Asp Arg
260 265 270
Leu Val Ser Val Leu Tyr Ser Val Val Thr Pro Met Leu Asn Pro Ile
275 280 285
Ile Tyr Thr Leu Arg Asn Lys Asp Ile Lys Glu Ala Val Lys Thr Ile
290 295 300
Gly Ser Lys Trp Gln Pro Pro Ile Ser Ser Leu Asp Ser Lys Leu Thr
305 310 315 320
Tyr

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<210> 77
 <211> 297
 <212> PRT
 <213> Homo sapiens

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<400> 77
Met Asp Pro Gly Lys Asp Lys Glu Gly Val Pro Gln Pro Ser Gly Pro
1 5 10 15
Pro Ala Arg Lys Lys Phe Val Ile Pro Leu Asp Glu Asp Glu Val Pro
20 25 30
Pro Gly Val Ala Lys Pro Leu Phe Arg Ser Thr Gln Ser Leu Pro Thr
35 40 45
Val Asp Thr Ser Ala Gln Ala Ala Pro Gln Thr Tyr Ala Glu Tyr Ala
50 55 60
Ile Ser Gln Pro Leu Glu Gly Ala Gly Ala Thr Cys Pro Thr Gly Ser
65 70 75 80
Glu Pro Leu Ala Gly Glu Thr Pro Asn Gln Ala Leu Lys Pro Gly Ala
85 90 95
Lys Ser Asn Ser Ile Ile Val Ser Pro Arg Gln Arg Gly Asn Pro Val
100 105 110
Leu Lys Phe Val Arg Asn Val Pro Trp Glu Phe Gly Asp Val Ile Pro
115 120 125
Asp Tyr Val Leu Gly Gln Ser Thr Cys Ala Leu Phe Leu Ser Leu Arg
130 135 140
Tyr His Asn Leu His Pro Asp Tyr Ile His Gly Arg Leu Gln Ser Leu
145 150 155 160

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Gly	Lys	Asn	Phe	Ala	Leu	Arg	Val	Leu	Leu	Val	Gln	Val	Asp	Val	Lys
				165					170					175	
Asp	Pro	Gln	Gln	Ala	Leu	Lys	Glu	Leu	Ala	Lys	Met	Cys	Ile	Leu	Ala
			180					185					190		
Asp	Cys	Thr	Leu	Ile	Leu	Ala	Trp	Ser	Pro	Glu	Glu	Ala	Gly	Arg	Tyr
		195					200					205			
Leu	Glu	Thr	Tyr	Lys	Ala	Tyr	Glu	Gln	Lys	Pro	Ala	Asp	Leu	Leu	Met
	210					215					220				
Glu	Lys	Leu	Glu	Gln	Asp	Phe	Val	Ser	Arg	Val	Thr	Glu	Cys	Leu	Thr
225					230					235					240
Thr	Val	Lys	Ser	Val	Asn	Lys	Thr	Asp	Ser	Gln	Thr	Leu	Leu	Thr	Thr
				245					250					255	
Phe	Gly	Ser	Leu	Glu	Gln	Leu	Ile	Ala	Ala	Ser	Arg	Glu	Asp	Leu	Ala
			260					265					270		
Leu	Cys	Pro	Gly	Leu	Gly	Pro	Gln	Lys	Ala	Arg	Arg	Leu	Phe	Asp	Val
		275					280					285			
Leu	His	Glu	Pro	Phe	Leu	Lys	Val	Pro							
	290					295									

<210> 78

<211> 579

<212> PRT

<213> Homo sapiens

<400> 78

Met	Leu	Ala	Asn	Ser	Ala	Ser	Val	Arg	Ile	Leu	Ile	Lys	Gly	Gly	Lys
1				5					10					15	
Val	Val	Asn	Asp	Asp	Cys	Thr	His	Glu	Ala	Asp	Val	Tyr	Ile	Glu	Asn
			20					25					30		
Gly	Ile	Ile	Gln	Gln	Val	Gly	Arg	Glu	Leu	Met	Ile	Pro	Gly	Gly	Ala
		35				40						45			
Lys	Val	Ile	Asp	Ala	Thr	Gly	Lys	Leu	Val	Ile	Pro	Gly	Gly	Ile	Asp
	50					55					60				
Thr	Ser	Thr	His	Phe	His	Gln	Thr	Phe	Met	Asn	Ala	Thr	Cys	Val	Asp
65				70					75						80
Asp	Phe	Tyr	His	Gly	Thr	Lys	Ala	Ala	Leu	Val	Gly	Gly	Thr	Thr	Met
				85					90					95	
Ile	Ile	Gly	His	Val	Leu	Pro	Asp	Lys	Glu	Thr	Ser	Leu	Val	Asp	Ala
			100					105					110		
Tyr	Glu	Lys	Cys	Arg	Gly	Leu	Ala	Asp	Pro	Lys	Val	Cys	Cys	Asp	Tyr
		115					120					125			
Ala	Leu	His	Val	Gly	Ile	Thr	Trp	Trp	Ala	Pro	Lys	Val	Lys	Ala	Glu
	130					135					140				
Met	Glu	Thr	Leu	Val	Arg	Glu	Lys	Gly	Val	Asn	Ser	Phe	Gln	Met	Phe
145					150					155					160
Met	Thr	Tyr	Lys	Asp	Leu	Asn	Trp	Asn	Met	Leu	Arg	Asp	Ser	Glu	Leu
				165					170					175	
Tyr	Gln	Val	Leu	His	Ala	Cys	Lys	Asp	Ile	Gly	Ala	Ile	Ala	Arg	Val
			180					185					190		
His	Ala	Glu	Asn	Gly	Glu	Leu	Val	Ala	Glu	Ala	Ser	Leu	Gln	Pro	Arg
		195					200					205			
Ile	Leu	Asp	Gly	Gly	Thr	Pro	Gly	Ala	Lys	Glu	Ala	Leu	Asp	Leu	Gly
	210					215					220				
Ile	Thr	Gly	Pro	Glu	Gly	Ile	Glu	Ile	Ser	Arg	Pro	Glu	Glu	Leu	Glu
225					230					235					240
Ala	Glu	Ala	Thr	His	Arg	Val	Ile	Thr	Ile	Ala	Asn	Arg	Thr	His	Cys
				245					250					255	
Pro	Ile	Tyr	Leu	Val	Asn	Val	Ser	Ser	Ile	Ser	Ala	Gly	Asp	Val	Ile
			260					265					270		
Ala	Ala	Ala	Lys	Met	Gln	Gly	Lys	Val	Val	Leu	Ala	Glu	Thr	Thr	Thr
		275					280					285			
Ala	His	Ala	Thr	Leu	Thr	Gly	Leu	His	Tyr	Tyr	His	Gln	Asp	Trp	Ser
	290					295					300				

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His Ala Ala Ala Tyr Val Thr Val Pro Pro Leu Arg Leu Asp Thr Asn
 305 310 315 320
 Thr Ser Thr Tyr Leu Met Ser Leu Leu Ala Asn Asp Thr Leu Asn Ile
 325 330 335
 Val Ala Ser Asp His Arg Pro Phe Thr Thr Lys Gln Lys Ala Met Gly
 340 345 350
 Lys Glu Asp Phe Thr Lys Ile Pro His Gly Val Ser Gly Val Gln Asp
 355 360 365
 Arg Met Ser Val Ile Trp Glu Arg Gly Val Val Gly Gly Lys Met Asp
 370 375 380
 Glu Asn Arg Phe Val Ala Val Thr Ser Ser Asn Ala Ala Lys Leu Leu
 385 390 395 400
 Asn Leu Tyr Pro Arg Lys Gly Arg Ile Ile Pro Gly Ala Asp Ala Asp
 405 410 415
 Val Val Val Trp Asp Pro Glu Ala Thr Lys Thr Ile Ser Ala Ser Thr
 420 425 430
 Gln Val Gln Gly Gly Asp Phe Asn Leu Tyr Glu Asn Met Arg Cys His
 435 440 445
 Gly Val Pro Leu Val Thr Ile Ser Arg Gly Arg Val Val Tyr Glu Asn
 450 455 460
 Gly Val Phe Met Cys Ala Glu Gly Thr Gly Lys Phe Cys Pro Leu Arg
 465 470 475 480
 Ser Phe Pro Asp Thr Val Tyr Lys Lys Leu Val Gln Arg Glu Lys Thr
 485 490 495
 Leu Lys Val Arg Gly Val Asp Arg Thr Pro Tyr Leu Gly Asp Val Ala
 500 505 510
 Val Val Val His Pro Gly Lys Lys Glu Met Gly Thr Pro Leu Ala Asp
 515 520 525
 Thr Pro Thr Arg Pro Val Thr Arg His Gly Gly Met Arg Asp Leu His
 530 535 540
 Glu Ser Ser Phe Ser Leu Ser Gly Ser Gln Ile Asp Asp His Val Pro
 545 550 555 560
 Lys Arg Ala Ser Ala Arg Ile Leu Ala Pro Pro Gly Gly Arg Ser Ser
 565 570 575
 Gly Ile Trp

<210> 79

<211> 366

<212> PRT

<213> Homo sapiens

<400> 79

Val Thr Ala Val Ala Gln Gln Asn Gln Gly Glu Val Pro Glu Pro Gln
 1 5 10 15
 Asp Met Lys Val Ala Glu Val Leu Phe Asp Ala Ala Asp Ala Asn Ala
 20 25 30
 Ile Glu Glu Val Asn Leu Ala Tyr Glu Asn Val Lys Glu Val Asp Gly
 35 40 45
 Leu Asp Val Ser Lys Glu Gly Thr Glu Ala Trp Glu Ala Ala Met Lys
 50 55 60
 Arg Tyr Asp Glu Arg Ile Asp Arg Val Glu Thr Arg Ile Thr Ala Arg
 65 70 75 80
 Leu Arg Asp Gln Leu Gly Thr Ala Lys Asn Ala Asn Glu Met Phe Arg
 85 90 95
 Ile Phe Ser Arg Phe Asn Ala Leu Phe Val Arg Pro His Ile Arg Gly
 100 105 110
 Ala Ile Arg Glu Tyr Gln Thr Gln Leu Ile Gln Arg Val Lys Asp Asp
 115 120 125
 Ile Glu Ser Leu His Asp Lys Phe Lys Val Gln Tyr Pro Gln Ser Gln
 130 135 140
 Ala Cys Lys Met Ser His Val Arg Asp Leu Pro Pro Val Ser Gly Ser
 145 150 155 160

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Ile Ile Trp Ala Lys Gln Ile Asp Arg Gln Leu Thr Ala Tyr Met Lys
 165 170 175
 Arg Val Glu Asp Val Leu Gly Lys Gly Trp Glu Asn His Val Glu Gly
 180 185 190
 Gln Lys Leu Lys Gln Asp Gly Asp Ser Phe Arg Met Lys Leu Asn Thr
 195 200 205
 Gln Glu Ile Phe Asp Asp Trp Ala Arg Lys Val Gln Gln Arg Asn Leu
 210 215 220
 Gly Val Ser Gly Arg Ile Phe Thr Ile Glu Ser Thr Arg Val Arg Gly
 225 230 235 240
 Arg Thr Gly Asn Val Leu Lys Leu Lys Val Asn Phe Leu Pro Glu Ile
 245 250 255
 Ile Thr Leu Ser Lys Glu Val Arg Asn Leu Lys Trp Leu Gly Phe Arg
 260 265 270
 Val Pro Leu Ala Ile Val Asn Lys Ala His Gln Ala Asn Gln Leu Tyr
 275 280 285
 Pro Phe Ala Ile Ser Leu Ile Glu Ser Val Arg Thr Tyr Glu Arg Thr
 290 295 300
 Cys Glu Lys Val Glu Glu Arg Asn Thr Ile Ser Leu Leu Val Ala Gly
 305 310 315 320
 Leu Lys Lys Glu Val Gln Ala Leu Ile Ala Glu Gly Ile Ala Leu Val
 325 330 335
 Trp Glu Ser Tyr Lys Leu Asp Pro Tyr Val Gln Arg Leu Ala Glu Thr
 340 345 350
 Val Phe Asn Phe Gln Glu Lys Val Cys Ser His Val Ile Leu
 355 360 365

<210> 80

<211> 1335

<212> PRT

<213> Homo sapiens

<400> 80

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 Asn Asp Gly Phe Glu Ser Asp Lys Ser Trp Trp Ser Leu Asn Pro Tyr
 20 25 30
 Val Phe Leu Ile Arg Leu Gln Asp Glu Lys Lys Gly Asp Gly Val Arg
 35 40 45
 Val Gly Phe Phe Gln Leu Phe Arg Phe Ser Ser Ser Thr Asp Ile Trp
 50 55 60
 Leu Met Phe Val Gly Ser Leu Cys Ala Phe Leu His Gly Ile Ala Gln
 65 70 75 80
 Pro Gly Val Leu Ile Phe Gly Thr Met Thr Asp Val Phe Ile Asp
 85 90 95
 Tyr Asp Val Glu Leu Gln Glu Leu Gln Ile Pro Gly Lys Ala Cys Val
 100 105 110
 Asn Asn Thr Ile Val Trp Thr Asn Ser Ser Leu Asn Gln Asn Met Thr
 115 120 125
 Asn Gly Thr Arg Cys Gly Leu Asn Ile Glu Ser Glu Met Ile Lys
 130 135 140
 Phe Ala Ser Tyr Tyr Ala Gly Ile Ala Val Ala Val Leu Ile Thr Gly
 145 150 155 160
 Tyr Ile Gln Ile Cys Phe Trp Val Ile Ala Ala Ala Arg Gln Ile Gln
 165 170 175
 Lys Met Arg Lys Phe Tyr Phe Arg Arg Ile Met Arg Met Glu Ile Gly
 180 185 190
 Trp Phe Asp Cys Asn Ser Val Gly Glu Leu Asn Thr Arg Phe Ser Asp
 195 200 205
 Asp Ile Asn Lys Ile Asn Asp Ala Ile Ala Asp Gln Met Ala Leu Phe
 210 215 220
 Ile Gln Arg Met Thr Ser Thr Ile Cys Gly Phe Leu Leu Gly Phe Phe
 225 230 235 240

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Arg	Gly	Trp	Lys	Leu	Thr	Leu	Val	Ile	Ile	Ser	Val	Ser	Pro	Leu	Ile
				245					250					255	
Gly	Ile	Gly	Ala	Ala	Thr	Ile	Gly	Leu	Ser	Val	Ser	Lys	Phe	Thr	Asp
			260					265					270		
Tyr	Glu	Leu	Lys	Ala	Tyr	Ala	Lys	Ala	Gly	Val	Val	Ala	Asp	Glu	Val
		275					280					285			
Ile	Ser	Ser	Met	Arg	Thr	Val	Ala	Ala	Phe	Gly	Gly	Glu	Lys	Arg	Glu
	290					295					300				
Val	Glu	Arg	Tyr	Glu	Lys	Asn	Leu	Val	Phe	Ala	Gln	Arg	Trp	Gly	Ile
305					310					315					320
Arg	Lys	Gly	Ile	Val	Met	Gly	Phe	Phe	Thr	Gly	Phe	Val	Trp	Cys	Leu
				325					330					335	
Ile	Phe	Leu	Cys	Tyr	Ala	Leu	Ala	Phe	Trp	Tyr	Gly	Ser	Thr	Leu	Val
			340					345					350		
Leu	Asp	Glu	Gly	Glu	Tyr	Thr	Pro	Gly	Thr	Leu	Val	Gln	Ile	Phe	Leu
		355					360					365			
Ser	Val	Ile	Val	Gly	Ala	Leu	Asn	Leu	Gly	Asn	Ala	Ser	Pro	Cys	Leu
	370					375					380				
Glu	Ala	Phe	Ala	Thr	Gly	Arg	Ala	Ala	Ala	Thr	Ser	Ile	Phe	Glu	Thr
385					390					395					400
Ile	Asp	Arg	Lys	Pro	Ile	Ile	Asp	Cys	Met	Ser	Glu	Asp	Gly	Tyr	Lys
				405				410						415	
Leu	Asp	Arg	Ile	Lys	Gly	Glu	Ile	Glu	Phe	His	Asn	Val	Thr	Phe	His
			420					425					430		
Tyr	Pro	Ser	Arg	Pro	Glu	Val	Lys	Ile	Leu	Asn	Asp	Leu	Asn	Met	Val
		435					440					445			
Ile	Lys	Pro	Gly	Glu	Met	Thr	Ala	Leu	Val	Gly	Pro	Ser	Gly	Ala	Gly
	450					455					460				
Lys	Ser	Thr	Ala	Leu	Gln	Leu	Ile	Gln	Arg	Phe	Tyr	Asp	Pro	Cys	Glu
465					470					475					480
Gly	Met	Val	Thr	Val	Asp	Gly	His	Asp	Ile	Arg	Ser	Leu	Asn	Ile	Gln
				485					490					495	
Trp	Leu	Arg	Asp	Gln	Ile	Gly	Ile	Val	Glu	Gln	Glu	Pro	Val	Leu	Phe
			500					505					510		
Ser	Thr	Thr	Ile	Ala	Glu	Asn	Ile	Arg	Tyr	Gly	Arg	Glu	Asp	Ala	Thr
		515					520					525			
Met	Glu	Asp	Ile	Val	Gln	Ala	Lys	Glu	Ala	Asn	Ala	Tyr	Asn	Phe	
	530					535					540				
Ile	Met	Asp	Leu	Pro	Gln	Gln	Phe	Asp	Thr	Leu	Val	Gly	Glu	Gly	Gly
545					550					555					560
Gly	Gln	Met	Ser	Gly	Gly	Gln	Lys	Gln	Arg	Val	Ala	Ile	Ala	Arg	Ala
				565					570					575	
Leu	Ile	Arg	Asn	Pro	Lys	Ile	Leu	Leu	Leu	Asp	Met	Ala	Thr	Ser	Ala
			580					585					590		
Leu	Asp	Asn	Glu	Ser	Glu	Ala	Met	Val	Gln	Glu	Val	Leu	Ser	Lys	Ile
		595					600					605			
Gln	His	Gly	His	Thr	Ile	Ile	Ser	Val	Ala	His	Arg	Leu	Ser	Thr	Val
	610					615					620				
Arg	Ala	Ala	Asp	Thr	Ile	Ile	Gly	Phe	Glu	His	Gly	Thr	Ala	Val	Glu
625					630					635					640
Arg	Gly	Thr	His	Glu	Glu	Leu	Leu	Glu	Arg	Lys	Gly	Val	Tyr	Phe	Thr
				645					650					655	
Leu	Val	Thr	Leu	Gln	Ser	Gln	Gly	Asn	Gln	Ala	Leu	Asn	Glu	Glu	Asp
			660					665					670		
Ile	Lys	Gly	Lys	Cys	Phe	Phe	Pro	Ile	Leu	Val	Leu	Asp	Ala	Thr	Glu
		675					680					685			
Asp	Asp	Met	Leu	Ala	Arg	Thr	Phe	Ser	Arg	Gly	Ser	Tyr	Gln	Asp	Ser
	690					695					700				
Leu	Arg	Ala	Ser	Ile	Arg	Gln	Arg	Ser	Lys	Ser	Gln	Leu	Ser	Tyr	Leu
705					710					715					720
Val	His	Glu	Pro	Pro	Leu	Ala	Val	Val	Asp	His	Lys	Ser	Thr	Tyr	Glu
				725					730					735	
Glu	Asp	Arg	Lys	Asp	Lys	Asp	Ile	Pro	Val	Gln	Glu	Glu	Val	Glu	Pro

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Ala	Pro	Val	740	Arg	Arg	Ile	Leu	Lys	745	Phe	Ser	Ala	Pro	Glu	750	Trp	Pro	Tyr
Met	Leu	Val	755	Gly	Ser	Val	Gly	Ala	760	Ala	Val	Asn	Gly	Thr	765	Val	Thr	Pro
Leu	Tyr	Ala	770	Phe	Leu	Phe	Ser	Gln	775	Ile	Leu	Gly	Thr	Phe	780	Ser	Ile	Pro
785	Lys	Glu	805	Gln	Arg	Ser	Gln	Ile	810	Asn	Gly	Val	Cys	Leu	815	Leu	Phe	
Val	Ala	Met	820	Gly	Cys	Val	Ser	Leu	825	Phe	Thr	Gln	Phe	Leu	830	Gln	Gly	Tyr
Ala	Phe	Ala	835	Lys	Ser	Gly	Glu	Leu	840	Leu	Thr	Lys	Arg	Leu	845	Arg	Lys	Phe
Gly	Phe	Arg	850	Ala	Met	Leu	Gly	Gln	855	Asp	Ile	Ala	Trp	Phe	860	Asp	Asp	Leu
Arg	Asn	Ser	865	Pro	Gly	Ala	Leu	Thr	870	Thr	Arg	Leu	Ala	Thr	875	Asp	Ala	Ser
Gln	Val	Gln	885	Gly	Ala	Ala	Gly	Ser	890	Gln	Ile	Gly	Met	Ile	895	Val	Asn	Ser
Phe	Thr	Asn	900	Val	Thr	Val	Ala	Met	905	Ile	Ala	Phe	Ser	Phe	910	Ser	Trp	
Lys	Leu	Ser	915	Leu	Val	Ile	Leu	Cys	920	Phe	Phe	Pro	Phe	Leu	925	Ala	Leu	Ser
Gly	Ala	Thr	930	Gln	Thr	Arg	Met	Leu	935	Thr	Gly	Phe	Ala	Ser	940	Arg	Asp	Lys
Gln	Ala	Leu	945	Glu	Met	Val	Gly	Gln	950	Ile	Thr	Asn	Glu	Ala	955	Leu	Ser	Asn
Ile	Arg	Thr	965	Val	Ala	Gly	Ile	Gly	970	Lys	Glu	Arg	Arg	Phe	975	Ile	Glu	Ala
Leu	Glu	Thr	980	Glu	Leu	Glu	Lys	Pro	985	Phe	Lys	Thr	Ala	Ile	990	Gln	Lys	Ala
Asn	Ile	Tyr	995	Gly	Phe	Cys	Phe	Ala	1000	Phe	Ala	Gln	Cys	Ile	1005	Met	Phe	Ile
Ala	Asn	Ser	1010	Ala	Ser	Tyr	Arg	Tyr	1015	Gly	Gly	Tyr	Leu	Ile	1020	Ser	Asn	Glu
Gly	Leu	His	1025	Phe	Ser	Tyr	Val	Phe	1030	Arg	Val	Ile	Ser	Ala	1035	Val	Val	Leu
Ser	Ala	Thr	1045	Ala	Leu	Gly	Arg	Ala	1050	Phe	Ser	Tyr	Thr	Pro	1055	Ser	Tyr	Ala
Lys	Ala	Lys	1060	Ile	Ser	Ala	Ala	Arg	1065	Phe	Phe	Gln	Leu	Leu	1070	Asp	Arg	Gln
Pro	Pro	Ile	1075	Ser	Val	Tyr	Asn	Thr	1080	Ala	Gly	Glu	Lys	Trp	1085	Asp	Asn	Phe
Gln	Gly	Lys	1090	Ile	Asp	Phe	Val	Asp	1095	Cys	Lys	Phe	Thr	Tyr	1100	Pro	Ser	Arg
Pro	Asp	Ser	1105	Gln	Val	Leu	Asn	Gly	1110	Leu	Ser	Val	Ser	Ile	1115	Ser	Pro	Gly
Gln	Thr	Leu	1125	Ala	Phe	Val	Gly	Ser	1130	Ser	Gly	Cys	Gly	Lys	1135	Ser	Thr	Ser
Ile	Gln	Leu	1140	Leu	Glu	Arg	Phe	Tyr	1145	Asp	Pro	Asp	Gln	Gly	1150	Lys	Val	Met
Ile	Asp	Gly	1155	His	Asp	Ser	Lys	Lys	1160	Val	Asn	Val	Gln	Phe	1165	Leu	Arg	Ser
Asn	Ile	Gly	1170	Ile	Val	Ser	Gln	Glu	1175	Pro	Val	Leu	Phe	Ala	1180	Cys	Ser	Ile
Met	Asp	Asn	1185	Ile	Lys	Tyr	Gly	Asp	1190	Asn	Thr	Lys	Glu	Ile	1195	Pro	Met	Glu
Arg	Val	Ile	1205	Ala	Ala	Ala	Lys	Gln	1210	Ala	Gln	Leu	His	Asp	1215	Phe	Val	Met
Ser	Leu	Pro	1220	Glu	Lys	Tyr	Glu	Thr	1225	Asn	Val	Gly	Ser	Gln	1230	Gly	Ser	Gln
Leu	Ser	Arg	1235	Gly	Glu	Lys	Gln	Arg	1240	Ile	Ala	Ile	Ala	Arg	1245	Ala	Ile	Val

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Arg Asp Pro Lys Ile Leu Leu Leu Asp Glu Ala Thr Ser Ala Leu Asp
 1250 1255 1260
 Thr Glu Ser Glu Lys Thr Val Gln Val Ala Leu Asp Lys Ala Arg Glu
 1265 1270 1275 1280
 Gly Arg Thr Cys Ile Val Ile Ala His Arg Leu Ser Thr Ile Gln Asn
 1285 1290 1295
 Ala Asp Ile Ile Ala Val Met Ala Gln Gly Val Val Ile Glu Lys Gly
 1300 1305 1310
 Thr His Glu Glu Leu Met Ala Gln Lys Gly Ala Tyr Tyr Lys Leu Val
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 Thr Thr Gly Ser Pro Ile Ser
 1330 1335

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<211> 1279

<212> PRT

<213> Homo sapiens

<400> 81

Met Asp Leu Glu Ala Ala Lys Asn Gly Thr Ala Trp Arg Pro Thr Ser
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 Lys Thr Lys Thr Val Lys Met Ile Gly Val Leu Thr Leu Phe Arg Tyr
 35 40 45
 Ser Asp Trp Gln Asp Lys Leu Phe Met Ser Leu Gly Thr Ile Met Ala
 50 55 60
 Ile Ala His Gly Ser Gly Leu Pro Leu Met Met Ile Val Phe Gly Glu
 65 70 75 80
 Met Thr Asp Lys Phe Val Asp Thr Ala Gly Asn Phe Ser Phe Pro Val
 85 90 95
 Asn Phe Ser Leu Ser Leu Leu Asn Pro Gly Lys Ile Leu Glu Glu Glu
 100 105 110
 Met Thr Arg Tyr Ala Tyr Tyr Tyr Ser Gly Leu Gly Ala Gly Val Leu
 115 120 125
 Val Ala Ala Tyr Ile Gln Val Ser Phe Trp Thr Leu Ala Ala Gly Arg
 130 135 140
 Gln Ile Arg Lys Ile Arg Gln Lys Phe Phe His Ala Ile Leu Arg Gln
 145 150 155 160
 Glu Ile Gly Trp Phe Asp Ile Asn Asp Thr Thr Glu Leu Asn Thr Arg
 165 170 175
 Leu Thr Asp Asp Ile Ser Lys Ile Ser Glu Gly Ile Gly Asp Lys Val
 180 185 190
 Gly Met Phe Phe Gln Ala Val Ala Thr Phe Phe Ala Gly Phe Ile Val
 195 200 205
 Gly Phe Ile Arg Gly Trp Lys Leu Thr Leu Val Ile Met Ala Ile Ser
 210 215 220
 Pro Ile Leu Gly Leu Ser Ala Ala Val Trp Ala Lys Ile Leu Ser Ala
 225 230 235 240
 Phe Ser Asp Lys Glu Leu Ala Ala Tyr Ala Lys Ala Gly Ala Val Ala
 245 250 255
 Glu Glu Ala Leu Gly Ala Ile Arg Thr Val Ile Ala Phe Gly Gly Gln
 260 265 270
 Asn Lys Glu Leu Glu Arg Tyr Gln Lys His Leu Glu Asn Ala Lys Glu
 275 280 285
 Ile Gly Ile Lys Lys Ala Ile Ser Ala Asn Ile Ser Met Gly Ile Ala
 290 295 300
 Phe Leu Leu Ile Tyr Ala Ser Tyr Ala Leu Ala Phe Trp Tyr Gly Ser
 305 310 315 320
 Thr Leu Val Ile Ser Lys Glu Tyr Thr Ile Gly Asn Ala Met Thr Val
 325 330 335
 Phe Phe Ser Ile Leu Ile Gly Ala Phe Ser Val Gly Gln Ala Ala Pro
 340 345 350

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Cys	Ile	Asp	Ala	Phe	Ala	Asn	Ala	Arg	Gly	Ala	Ala	Tyr	Val	Ile	Phe
		355					360					365			
Asp	Ile	Ile	Asp	Asn	Asn	Pro	Lys	Ile	Asp	Ser	Phe	Ser	Glu	Arg	Gly
	370					375					380				
His	Lys	Pro	Asp	Ser	Ile	Lys	Gly	Asn	Leu	Glu	Phe	Asn	Asp	Val	His
385					390					395					400
Phe	Ser	Tyr	Pro	Ser	Arg	Ala	Asn	Val	Lys	Ile	Leu	Lys	Gly	Leu	Asn
				405					410					415	
Leu	Lys	Val	Gln	Ser	Gly	Gln	Thr	Val	Ala	Leu	Val	Gly	Ser	Ser	Gly
			420					425					430		
Cys	Gly	Lys	Ser	Thr	Thr	Val	Gln	Leu	Ile	Gln	Arg	Leu	Tyr	Asp	Pro
		435					440					445			
Asp	Glu	Gly	Thr	Ile	Asn	Ile	Asp	Gly	Gln	Asp	Ile	Arg	Asn	Phe	Asn
	450					455					460				
Val	Asn	Tyr	Leu	Arg	Glu	Ile	Ile	Gly	Val	Val	Ser	Gln	Glu	Pro	Val
465					470					475					480
Leu	Phe	Ser	Thr	Thr	Ile	Ala	Glu	Asn	Ile	Cys	Tyr	Gly	Arg	Gly	Asn
				485					490					495	
Val	Thr	Met	Asp	Glu	Ile	Lys	Lys	Ala	Val	Lys	Glu	Ala	Asn	Ala	Tyr
			500					505					510		
Glu	Phe	Ile	Met	Lys	Leu	Pro	Gln	Lys	Phe	Asp	Thr	Leu	Val	Gly	Glu
		515					520					525			
Arg	Gly	Ala	Gln	Leu	Ser	Gly	Gly	Gln	Lys	Gln	Arg	Ile	Ala	Ile	Ala
	530					535					540				
Arg	Ala	Leu	Val	Arg	Asn	Pro	Lys	Ile	Leu	Leu	Leu	Asp	Glu	Ala	Thr
545					550					555					560
Ser	Ala	Leu	Asp	Thr	Glu	Ser	Glu	Ala	Glu	Val	Gln	Ala	Ala	Leu	Asp
				565					570					575	
Lys	Ala	Arg	Glu	Gly	Arg	Thr	Thr	Ile	Val	Ile	Ala	His	Arg	Leu	Ser
			580					585					590		
Thr	Val	Arg	Asn	Ala	Asp	Val	Ile	Ala	Gly	Phe	Glu	Asp	Gly	Val	Ile
		595					600					605			
Val	Glu	Gln	Gly	Ser	His	Ser	Glu	Leu	Met	Lys	Lys	Glu	Gly	Val	Tyr
	610					615					620				
Phe	Lys	Leu	Val	Asn	Met	Gln	Thr	Ser	Gly	Ser	Gln	Ile	Gln	Ser	Glu
625					630					635					640
Glu	Phe	Glu	Leu	Asn	Asp	Glu	Lys	Ala	Ala	Thr	Arg	Met	Ala	Pro	Asn
				645					650					655	
Gly	Trp	Lys	Ser	Arg	Leu	Phe	Arg	His	Ser	Thr	Gln	Lys	Asn	Leu	Lys
			660					665					670		
Asn	Ser	Gln	Met	Cys	Gln	Lys	Ser	Leu	Asp	Val	Glu	Thr	Asp	Gly	Leu
		675					680					685			
Glu	Ala	Asn	Val	Pro	Pro	Val	Ser	Phe	Leu	Lys	Val	Leu	Lys	Leu	Asn
	690					695					700				
Lys	Thr	Glu	Trp	Pro	Tyr	Phe	Val	Val	Gly	Thr	Val	Cys	Ala	Ile	Ala
705					710					715					720
Asn	Gly	Gly	Leu	Gln	Pro	Ala	Phe	Ser	Val	Ile	Phe	Ser	Glu	Ile	Ile
				725					730					735	
Ala	Ile	Phe	Gly	Pro	Gly	Asp	Asp	Ala	Val	Lys	Gln	Gln	Lys	Cys	Asn
			740					745					750		
Ile	Phe	Ser	Leu	Ile	Phe	Leu	Phe	Leu	Gly	Ile	Ile	Ser	Phe	Phe	Thr
		755					760					765			
Phe	Phe	Leu	Gln	Gly	Phe	Thr	Phe	Gly	Lys	Ala	Gly	Glu	Ile	Leu	Thr
	770					775					780				
Arg	Arg	Leu	Arg	Ser	Met	Ala	Phe	Lys	Ala	Met	Leu	Arg	Gln	Asp	Met
785					790					795					800
Ser	Trp	Phe	Asp	Asp	His	Lys	Asn	Ser	Thr	Gly	Ala	Leu	Ser	Thr	Arg
				805					810					815	
Leu	Ala	Thr	Asp	Ala	Ala	Gln	Val	Gln	Gly	Ala	Thr	Gly	Thr	Arg	Leu
			820					825					830		
Ala	Leu	Ile	Ala	Gln	Asn	Ile	Ala	Asn	Leu	Gly	Thr	Gly	Ile	Ile	Ile
		835					840					845			
Ser	Phe	Ile	Tyr	Gly	Trp	Gln	Leu	Thr	Leu	Leu	Leu	Leu	Ala	Val	Val

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Pro Ile Ile Ala Val Ser Gly Ile Val Glu Met Lys Leu Leu Ala Gly
865      870      875      880
Asn Ala Lys Arg Asp Lys Lys Glu Leu Glu Ala Ala Gly Lys Ile Ala
      885      890      895
Thr Glu Ala Ile Glu Asn Ile Arg Thr Val Val Ser Leu Thr Gln Glu
      900      905      910
Arg Lys Phe Glu Ser Met Tyr Val Glu Lys Leu Tyr Gly Pro Tyr Arg
      915      920      925
Asn Ser Val Gln Lys Ala His Ile Tyr Gly Ile Thr Phe Ser Ile Ser
      930      935      940
Gln Ala Phe Met Tyr Phe Ser Tyr Ala Gly Cys Phe Arg Phe Gly Ala
945      950      955      960
Tyr Leu Ile Val Asn Gly His Met Arg Phe Arg Asp Val Ile Leu Val
      965      970      975
Phe Ser Ala Ile Val Phe Gly Ala Val Ala Leu Gly His Ala Ser Ser
      980      985      990
Phe Ala Pro Asp Tyr Ala Lys Ala Lys Leu Ser Ala Ala His Leu Phe
      995      1000      1005
Met Leu Phe Glu Arg Gln Pro Leu Ile Asp Ser Tyr Ser Glu Glu Gly
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Leu Lys Pro Asp Lys Phe Glu Gly Asn Ile Thr Phe Asn Glu Val Val
1025      1030      1035      1040
Phe Asn Tyr Pro Thr Arg Ala Asn Val Pro Val Leu Gln Gly Leu Ser
      1045      1050      1055
Leu Glu Val Lys Lys Gly Gln Thr Leu Ala Leu Val Gly Ser Ser Gly
      1060      1065      1070
Cys Gly Lys Ser Thr Val Val Gln Leu Leu Glu Arg Phe Tyr Asp Pro
      1075      1080      1085
Leu Ala Gly Thr Val Leu Leu Asp Gly Gln Glu Ala Lys Lys Leu Asn
1090      1095      1100
Val Gln Trp Leu Arg Ala Gln Leu Gly Ile Val Ser Gln Glu Pro Ile
1105      1110      1115      1120
Leu Phe Asp Cys Ser Ile Ala Glu Asn Ile Ala Tyr Gly Asp Asn Ser
      1125      1130      1135
Arg Val Val Ser Gln Asp Glu Ile Val Ser Ala Ala Lys Ala Ala Asn
      1140      1145      1150
Ile His Pro Phe Ile Glu Thr Leu Pro His Lys Tyr Glu Thr Arg Val
      1155      1160      1165
Gly Asp Lys Gly Thr Gln Leu Ser Gly Gly Gln Lys Gln Arg Ile Ala
      1170      1175      1180
Ile Ala Arg Ala Leu Ile Arg Gln Pro Gln Ile Leu Leu Leu Asp Glu
1185      1190      1195      1200
Ala Thr Ser Ala Leu Asp Thr Glu Ser Glu Lys Val Val Gln Glu Ala
      1205      1210      1215
Leu Asp Lys Ala Arg Glu Gly Arg Thr Cys Ile Val Ile Ala His Arg
      1220      1225      1230
Leu Ser Thr Ile Gln Asn Ala Asp Leu Ile Val Val Phe Gln Asn Gly
      1235      1240      1245
Arg Val Lys Glu His Gly Thr His Gln Gln Leu Leu Ala Gln Lys Gly
1250      1255      1260
Ile Tyr Phe Ser Met Val Ser Val Gln Ala Gly Thr Gln Asn Leu
1265      1270      1275

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<210> 82

<211> 1280

<212> PRT

<213> Homo sapiens

<400> 82

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Met Asp Leu Glu Gly Asp Arg Asn Gly Gly Ala Lys Lys Lys Asn Phe
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Phe Lys Leu Asn Asn Lys Ser Glu Lys Asp Lys Lys Glu Lys Lys Pro

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	50					55						60						
Leu	Pro	Leu	Met	Met	Leu	Val	Phe	Gly	Glu	Met	Thr	Asp	Ile	Phe	Ala			
65					70					75								
Asn	Ala	Gly	Asn	Leu	Glu	Asp	Leu	Met	Ser	Asn	Ile	Thr	Asn	Arg	Ser			
				85					90					95				
Asp	Ile	Asn	Asp	Thr	Gly	Phe	Phe	Met	Asn	Leu	Glu	Glu	Asp	Met	Thr			
			100					105					110					
Arg	Tyr	Ala	Tyr	Tyr	Tyr	Ser	Gly	Ile	Gly	Ala	Gly	Val	Leu	Val	Ala			
		115					120					125						
Ala	Tyr	Ile	Gln	Val	Ser	Phe	Trp	Cys	Leu	Ala	Ala	Gly	Arg	Gln	Ile			
	130					135						140						
His	Lys	Ile	Arg	Lys	Gln	Phe	Phe	His	Ala	Ile	Met	Arg	Gln	Glu	Ile			
145					150					155					160			
Gly	Trp	Phe	Asp	Val	His	Asp	Val	Gly	Glu	Leu	Asn	Thr	Arg	Leu	Thr			
				165					170					175				
Asp	Asp	Val	Ser	Lys	Ile	Asn	Glu	Gly	Ile	Gly	Asp	Lys	Ile	Gly	Met			
			180					185					190					
Phe	Phe	Gln	Ser	Met	Ala	Thr	Phe	Phe	Thr	Gly	Phe	Ile	Val	Gly	Phe			
		195					200					205						
Thr	Arg	Gly	Trp	Lys	Leu	Thr	Leu	Val	Ile	Leu	Ala	Ile	Ser	Pro	Val			
	210					215					220							
Leu	Gly	Leu	Ser	Ala	Ala	Val	Trp	Ala	Lys	Ile	Leu	Ser	Ser	Phe	Thr			
225					230					235					240			
Asp	Lys	Glu	Leu	Leu	Ala	Tyr	Ala	Lys	Ala	Gly	Ala	Val	Ala	Glu	Glu			
				245					250					255				
Val	Leu	Ala	Ala	Ile	Arg	Thr	Val	Ile	Ala	Phe	Gly	Gly	Gln	Lys	Lys			
			260					265					270					
Glu	Leu	Glu	Arg	Tyr	Asn	Lys	Asn	Leu	Glu	Glu	Ala	Lys	Arg	Ile	Gly			
		275					280					285						
Ile	Lys	Lys	Ala	Ile	Thr	Ala	Asn	Ile	Ser	Ile	Gly	Ala	Ala	Phe	Leu			
	290					295					300							
Leu	Ile	Tyr	Ala	Ser	Tyr	Ala	Leu	Ala	Phe	Trp	Tyr	Gly	Thr	Thr	Leu			
305					310					315					320			
Val	Leu	Ser	Gly	Glu	Tyr	Ser	Ile	Gly	Gln	Val	Leu	Thr	Val	Phe	Phe			
				325					330					335				
Ser	Val	Leu	Ile	Gly	Ala	Phe	Ser	Val	Gly	Gln	Ala	Ser	Pro	Ser	Ile			
			340					345					350					
Glu	Ala	Phe	Ala	Asn	Ala	Arg	Gly	Ala	Ala	Tyr	Glu	Ile	Phe	Lys	Ile			
		355					360					365						
Ile	Asp	Asn	Lys	Pro	Ser	Ile	Asp	Ser	Tyr	Ser	Lys	Ser	Gly	His	Lys			
	370					375					380							
Pro	Asp	Asn	Ile	Lys	Gly	Asn	Leu	Glu	Phe	Arg	Asn	Val	His	Phe	Ser			
385					390					395					400			
Tyr	Pro	Ser	Arg	Lys	Glu	Val	Lys	Ile	Leu	Lys	Gly	Leu	Asn	Leu	Lys			
				405					410					415				
Val	Gln	Ser	Gly	Gln	Thr	Val	Ala	Leu	Val	Gly	Asn	Ser	Gly	Cys	Gly			
			420					425					430					
Lys	Ser	Thr	Thr	Val	Gln	Leu	Met	Gln	Arg	Leu	Tyr	Asp	Pro	Thr	Glu			
		435					440					445						
Gly	Met	Val	Ser	Val	Asp	Gly	Gln	Asp	Ile	Arg	Thr	Ile	Asn	Val	Arg			
	450					455					460							
Phe	Leu	Arg	Glu	Ile	Ile	Gly	Val	Val	Ser	Gln	Glu	Pro	Val	Leu	Phe			
465					470					475					480			
Ala	Thr	Thr	Ile	Ala	Glu	Asn	Ile	Arg	Tyr	Gly	Arg	Glu	Asn	Val	Thr			
				485					490					495				
Met	Asp	Glu	Ile	Glu	Lys	Ala	Val	Lys	Glu	Ala	Asn	Ala	Tyr	Asp	Phe			
			500					505					510					
Ile	Met	Lys	Leu	Pro	His	Lys	Phe	Asp	Thr	Leu	Val	Gly	Arg	Gly				
		515					520					525						

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Ala	Gln	Leu	Ser	Gly	Gly	Gln	Lys	Gln	Arg	Ile	Ala	Ile	Ala	Arg	Ala
530						535					540				
Leu	Val	Arg	Asn	Pro	Lys	Ile	Leu	Leu	Leu	Asp	Glu	Ala	Thr	Ser	Ala
545					550					555					560
Leu	Asp	Thr	Glu	Ser	Glu	Ala	Val	Val	Gln	Val	Ala	Leu	Asp	Lys	Ala
				565					570					575	
Arg	Lys	Gly	Arg	Thr	Thr	Ile	Val	Ile	Ala	His	Arg	Leu	Ser	Thr	Val
			580					585					590		
Arg	Asn	Ala	Asp	Val	Ile	Ala	Gly	Phe	Asp	Asp	Gly	Val	Ile	Val	Glu
		595					600					605			
Lys	Gly	Asn	His	Asp	Glu	Leu	Met	Lys	Glu	Lys	Gly	Ile	Tyr	Phe	Lys
	610					615					620				
Leu	Val	Thr	Met	Gln	Thr	Ala	Gly	Asn	Glu	Val	Glu	Leu	Glu	Asn	Ala
625					630					635					640
Ala	Asp	Glu	Ser	Lys	Ser	Glu	Ile	Asp	Ala	Leu	Glu	Met	Ser	Ser	Asn
				645					650					655	
Asp	Ser	Arg	Ser	Ser	Leu	Ile	Arg	Lys	Arg	Ser	Thr	Arg	Arg	Ser	Val
			660					665					670		
Arg	Gly	Ser	Gln	Ala	Gln	Asp	Arg	Lys	Leu	Ser	Thr	Lys	Glu	Ala	Leu
		675					680					685			
Asp	Glu	Ser	Ile	Pro	Pro	Val	Ser	Phe	Trp	Arg	Ile	Met	Lys	Leu	Asn
	690					695					700				
Leu	Thr	Glu	Trp	Pro	Tyr	Phe	Val	Val	Gly	Val	Phe	Cys	Ala	Ile	Ile
705					710					715					720
Asn	Gly	Gly	Leu	Gln	Pro	Ala	Phe	Ala	Ile	Ile	Phe	Ser	Lys	Ile	Ile
				725					730					735	
Gly	Val	Phe	Thr	Arg	Ile	Asp	Asp	Pro	Glu	Thr	Lys	Arg	Gln	Asn	Ser
			740					745					750		
Asn	Leu	Phe	Ser	Leu	Leu	Phe	Leu	Ala	Leu	Gly	Ile	Ile	Ser	Phe	Ile
		755					760					765			
Thr	Phe	Phe	Leu	Gln	Gly	Phe	Thr	Phe	Gly	Lys	Ala	Gly	Glu	Ile	Leu
	770					775					780				
Thr	Lys	Arg	Leu	Arg	Tyr	Met	Val	Phe	Arg	Ser	Met	Leu	Arg	Gln	Asp
785					790					795					800
Val	Ser	Trp	Phe	Asp	Asp	Pro	Lys	Asn	Thr	Thr	Gly	Ala	Leu	Thr	Thr
				805					810					815	
Arg	Leu	Ala	Asn	Asp	Ala	Ala	Gln	Val	Lys	Gly	Ala	Ile	Gly	Ser	Arg
			820					825					830		
Leu	Ala	Val	Ile	Thr	Gln	Asn	Ile	Ala	Asn	Leu	Gly	Thr	Gly	Ile	Ile
		835					840					845			
Ile	Ser	Phe	Ile	Tyr	Gly	Trp	Gln	Leu	Thr	Leu	Leu	Leu	Leu	Ala	Ile
	850					855					860				
Val	Pro	Ile	Ile	Ala	Ile	Ala	Gly	Val	Val	Glu	Met	Lys	Met	Leu	Ser
865					870					875					880
Gly	Gln	Ala	Leu	Lys	Asp	Lys	Lys	Glu	Leu	Glu	Gly	Ser	Gly	Lys	Ile
				885					890					895	
Ala	Thr	Glu	Ala	Ile	Glu	Asn	Phe	Arg	Thr	Val	Val	Ser	Leu	Thr	Gln
			900					905					910		
Glu	Gln	Lys	Phe	Glu	His	Met	Tyr	Ala	Gln	Ser	Leu	Gln	Val	Pro	Tyr
		915					920					925			
Arg	Asn	Ser	Leu	Arg	Lys	Ala	His	Ile	Phe	Gly	Ile	Thr	Phe	Ser	Phe
	930					935					940				
Thr	Gln	Ala	Met	Met	Tyr	Phe	Ser	Tyr	Ala	Gly	Cys	Phe	Arg	Phe	Gly
945					950					955					960
Ala	Tyr	Leu	Val	Ala	His	Lys	Leu	Met	Ser	Phe	Glu	Asp	Val	Leu	Leu
				965					970					975	
Val	Phe	Ser	Ala	Val	Val	Phe	Gly	Ala	Met	Ala	Val	Gly	Gln	Val	Ser
			980					985					990		
Ser	Phe	Ala	Pro	Asp	Tyr	Ala	Lys	Ala	Lys	Ile	Ser	Ala	Ala	His	Ile
		995					1000					1005			
Ile	Met	Ile	Ile	Glu	Lys	Thr	Pro	Leu	Ile	Asp	Ser	Tyr	Ser	Thr	Glu
	1010					1015					1020				
Gly	Leu	Met	Pro	Asn	Thr	Leu	Glu	Gly	Asn	Val	Thr	Phe	Gly	Glu	Val

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1025 1030 1035 1040
 Val Phe Asn Tyr Pro Thr Arg Pro Asp Ile Pro Val Leu Gln Gly Leu
 1045 1050 1055
 Ser Leu Glu Val Lys Lys Gly Gln Thr Leu Ala Leu Val Gly Ser Ser
 1060 1065 1070
 Gly Cys Gly Lys Ser Thr Val Val Gln Leu Leu Glu Arg Phe Tyr Asp
 1075 1080 1085
 Pro Leu Ala Gly Lys Val Leu Leu Asp Gly Lys Glu Ile Lys Arg Leu
 1090 1095 1100
 Asn Val Gln Trp Leu Arg Ala His Leu Gly Ile Val Ser Gln Glu Pro
 1105 1110 1115 1120
 Ile Leu Phe Asp Cys Ser Ile Ala Glu Asn Ile Ala Tyr Gly Asp Asn
 1125 1130 1135
 Ser Arg Val Val Ser Gln Glu Glu Ile Val Arg Ala Ala Lys Glu Ala
 1140 1145 1150
 Asn Ile His Ala Phe Ile Glu Ser Leu Pro Asn Lys Tyr Ser Thr Lys
 1155 1160 1165
 Val Gly Asp Lys Gly Thr Gln Leu Ser Gly Gly Gln Lys Gln Arg Ile
 1170 1175 1180
 Ala Ile Ala Arg Ala Leu Val Arg Gln Pro His Ile Leu Leu Leu Asp
 1185 1190 1195 1200
 Glu Ala Thr Ser Ala Leu Asp Thr Glu Ser Glu Lys Val Val Gln Glu
 1205 1210 1215
 Ala Leu Asp Lys Ala Arg Glu Gly Arg Thr Cys Ile Val Ile Ala His
 1220 1225 1230
 Arg Leu Ser Thr Ile Gln Asn Ala Asp Leu Ile Val Val Phe Gln Asn
 1235 1240 1245
 Gly Arg Val Lys Glu His Gly Thr His Gln Gln Leu Leu Ala Gln Lys
 1250 1255 1260
 Gly Ile Tyr Phe Ser Met Val Ser Val Gln Ala Gly Thr Lys Arg Gln
 1265 1270 1275 1280

<210> 83

<211> 378

<212> PRT

<213> Homo sapiens

<400> 83

Met Leu Leu Thr Val Tyr Cys Val Arg Arg Asp Leu Ser Glu Val Thr
 1 5 10 15
 Phe Ser Leu Gln Val Asp Ala Asp Phe Glu Leu His Asn Phe Arg Ala
 20 25 30
 Leu Cys Glu Leu Glu Ser Gly Ile Pro Ala Ala Glu Ser Gln Ile Val
 35 40 45
 Tyr Ala Glu Arg Pro Leu Thr Asp Asn His Arg Ser Leu Ala Ser Tyr
 50 55 60
 Gly Leu Lys Asp Gly Asp Val Val Ile Leu Arg Gln Lys Glu Asn Ala
 65 70 75 80
 Asp Pro Arg Pro Pro Val Gln Phe Pro Asn Leu Pro Arg Ile Asp Phe
 85 90 95
 Ser Ser Ile Ala Val Pro Gly Thr Ser Ser Pro Arg Gln Arg Gln Pro
 100 105 110
 Pro Gly Thr Gln Gln Ser His Ser Ser Pro Gly Glu Ile Thr Ser Ser
 115 120 125
 Pro Gln Gly Leu Asp Asn Pro Ala Leu Leu Arg Asp Met Leu Leu Ala
 130 135 140
 Asn Pro His Glu Leu Ser Leu Leu Lys Glu Arg Asn Pro Pro Leu Ala
 145 150 155 160
 Glu Ala Leu Leu Ser Gly Asp Leu Glu Lys Phe Ser Arg Val Leu Val
 165 170 175
 Glu Gln Gln Gln Asp Arg Ala Arg Arg Glu Gln Glu Arg Ile Arg Leu
 180 185 190
 Phe Ser Ala Asp Pro Phe Asp Leu Glu Ala Gln Ala Lys Ile Glu Glu

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      195      200      205
Asp Ile Arg Gln Gln Asn Ile Glu Glu Asn Met Thr Ile Ala Met Glu
  210      215      220
Glu Ala Pro Glu Ser Phe Gly Gln Val Val Met Leu Tyr Ile Asn Cys
  225      230      235      240
Lys Val Asn Gly His Pro Val Lys Ala Phe Val Asp Ser Gly Ala Gln
      245      250      255
Met Thr Ile Met Ser Gln Ala Cys Ala Glu Arg Cys Asn Ile Met Arg
      260      265      270
Leu Val Asp Arg Arg Trp Ala Gly Ile Ala Lys Gly Val Gly Thr Gln
      275      280      285
Lys Ile Ile Gly Arg Val His Leu Ala Gln Val Gln Ile Glu Gly Asp
      290      295      300
Phe Leu Pro Cys Ser Phe Ser Ile Leu Glu Glu Gln Pro Met Asp Met
      305      310      315      320
Leu Leu Gly Leu Asp Met Leu Lys Arg His Gln Cys Ser Ile Asp Leu
      325      330      335
Lys Lys Asn Val Leu Val Ile Gly Thr Thr Gly Ser Gln Thr Thr Phe
      340      345      350
Leu Pro Glu Gly Glu Leu Pro Glu Cys Ala Arg Leu Ala Tyr Gly Ala
      355      360      365
Gly Arg Glu Asp Val Arg Pro Glu Glu Ile
      370      375

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<210> 84

<211> 78

<212> PRT

<213> Homo sapiens

<400> 84

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Gln Thr Gly Pro Ser Val Thr Val Thr Cys Thr Glu Gly Lys Trp Asn
  1      5      10      15
Lys Gln Cys Arg Ile Lys Cys Glu Asp Thr Ala Pro His Ala Val Leu
      20      25      30
Pro Ser Gly Ser Glu Cys Ala Thr Ser Cys Leu Asp His Asn Ser Glu
      35      40      45
Ser Ile Ile Leu Pro Met Asn Val Thr Val Arg Asp Ile Pro His Trp
      50      55      60
Leu Asn Pro Thr Arg Val Glu Val Ser Asp Gln Gly His Leu
      65      70      75

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<210> 85

<211> 417

<212> PRT

<213> Homo sapiens

<400> 85

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Met Ser Ala Thr Leu Ile Leu Glu Pro Pro Gly Arg Cys Cys Trp Asn
  1      5      10      15
Glu Pro Val Arg Ile Ala Val Arg Gly Leu Ala Pro Glu Gln Arg Val
      20      25      30
Thr Leu Arg Ala Ser Leu Arg Asp Glu Lys Gly Ala Leu Phe Arg Ala
      35      40      45
His Ala Arg Tyr Cys Ala Asp Ala Arg Gly Glu Leu Asp Leu Glu Arg
      50      55      60
Ala Pro Ala Leu Gly Gly Ser Phe Ala Gly Leu Glu Pro Met Gly Leu
      65      70      75      80
Leu Trp Ala Leu Glu Pro Glu Lys Pro Phe Trp Arg Phe Leu Lys Arg
      85      90      95
Asp Val Gln Ile Pro Phe Val Val Glu Leu Glu Val Leu Asp Gly His
      100      105      110
Asp Pro Glu Pro Gly Arg Leu Leu Cys Gln Ala Gln His Glu Arg His
      115      120      125

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Phe Leu Pro Pro Gly Val Arg Arg Gln Ser Val Arg Ala Gly Arg Val
 130 135 140
 Arg Ala Thr Leu Phe Leu Pro Pro Gly Pro Gly Pro Phe Pro Gly Ile
 145 150 155 160
 Ile Asp Ile Phe Gly Ile Gly Gly Gly Leu Leu Glu Tyr Arg Ala Ser
 165 170 175
 Leu Leu Ala Gly His Gly Phe Ala Thr Leu Ala Leu Ala Tyr Tyr Asn
 180 185 190
 Phe Glu Asp Leu Pro Asn Asn Met Asp Asn Ile Ser Leu Glu Tyr Phe
 195 200 205
 Glu Glu Ala Val Cys Tyr Met Leu Gln His Pro Gln Val Lys Gly Pro
 210 215 220
 Gly Ile Gly Leu Leu Gly Ile Ser Leu Gly Ala Asp Ile Cys Leu Ser
 225 230 235 240
 Met Ala Ser Phe Leu Lys Asn Val Ser Ala Thr Val Ser Ile Asn Gly
 245 250 255
 Ser Gly Ile Ser Gly Asn Thr Ala Ile Asn Tyr Lys His Ser Ser Ile
 260 265 270
 Pro Pro Leu Gly Tyr Asp Leu Arg Arg Ile Lys Val Ala Phe Ser Gly
 275 280 285
 Leu Val Asp Ile Val Asp Ile Arg Asn Ala Leu Val Gly Gly Tyr Lys
 290 295 300
 Asn Pro Ser Met Ile Pro Ile Glu Lys Ala Gln Gly Pro Ile Leu Leu
 305 310 315 320
 Ile Val Gly Gln Asp Asp His Asn Trp Arg Ser Glu Leu Tyr Ala Gln
 325 330 335
 Thr Val Ser Glu Arg Leu Gln Ala His Gly Lys Glu Lys Pro Gln Ile
 340 345 350
 Ile Cys Tyr Pro Gly Thr Gly His Tyr Ile Glu Pro Pro Tyr Phe Pro
 355 360 365
 Leu Cys Pro Ala Ser Leu His Arg Leu Leu Asn Lys His Val Ile Trp
 370 375 380
 Gly Gly Glu Pro Arg Ala His Ser Lys Ala Gln Glu Asp Ala Trp Lys
 385 390 395 400
 Gln Ile Leu Ala Phe Phe Cys Lys His Leu Gly Gly Thr Gln Lys Thr
 405 410 415
 Ala

<210> 86
 <211> 1066
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (116)...(117)
 <223> Xaa = Any Amino Acid

<400> 86
 Ile Leu His Gly Glu His Thr Leu Ser His Gln Asp Asn Phe Ser Pro
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 Gly Gln Glu Val Phe Tyr Ser Cys Glu Pro Ser Tyr Asp Leu Arg Gly
 20 25 30
 Ala Ala Ser Leu His Cys Thr Pro Gln Gly Asp Trp Ser Glu Ala
 35 40 45
 Pro Arg Cys Thr Val Lys Ser Cys Asp Asp Phe Leu Gly Gln Leu Pro
 50 55 60
 His Gly Arg Val Leu Leu Pro Leu Asn Leu Gln Leu Gly Ala Lys Val
 65 70 75 80
 Ser Phe Val Cys Asp Glu Gly Phe Arg Leu Lys Gly Arg Ser Ala Ser
 85 90 95
 His Cys Val Leu Ala Gly Met Lys Ala Leu Trp Asn Ser Ser Val Pro

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Val	Cys	Glu	100	Xaa	Xaa	Met	Ile	Lys	105	Thr	Val	Phe	Leu	Phe	110	Phe	Ser	Leu
Pro	Ile	Ser	115	Asn	Asn	Ala	His	Glu	120	Asn	Pro	Lys	Glu	Val	125	Ala	Ile	His
Leu	His	Ser	130	Gln	Gly	Gly	Ser	Ser	135	Val	His	Pro	Arg	Thr	140	Leu	Gln	Thr
Asn	Glu	Glu	145	Asn	Ser	Arg	Tyr	Ile	150	His	Thr	Glu	Phe	Lys	155	Met	Phe	Ser
Thr	Thr	Gln	165	Ile	Ser	Lys	Met	Glu	170	Thr	Gly	Leu	Glu	Tyr	175	Asp	Ile	Ala
Leu	Ala	Asn	180	Asn	Glu	Cys	Lys	Asn	185	Ser	Tyr	Ser	Leu	Val	190	Thr	Arg	Glu
Ile	Phe	Val	195	Ile	His	Tyr	Ile	Asp	200	Cys	Ala	Leu	Pro	205	Phe	Pro	Gly	Ile
Ile	Cys	Gly	210	Leu	Pro	Pro	Thr	Ile	215	Ala	Asn	Gly	Asp	220	Phe	Thr	Ser	Ile
Ser	Arg	Glu	225	Tyr	Phe	His	Tyr	Gly	230	Ser	Val	Val	Thr	235	Tyr	His	Cys	Asn
Leu	Gly	Ser	245	Arg	Gly	Lys	Lys	Val	250	Phe	Glu	Leu	Val	255	Gly	Glu	Pro	Ser
Ile	Tyr	Cys	260	Thr	Ser	Lys	Asp	Asp	265	Gln	Val	Gly	Ile	270	Trp	Ser	Gly	Pro
Ala	Pro	Gln	275	Cys	Ile	Ile	Pro	Asn	280	Lys	Cys	Thr	Pro	285	Pro	Asn	Val	Glu
Asn	Gly	Ile	290	Leu	Val	Ser	Asp	Asn	295	Arg	Ser	Leu	Phe	300	Ser	Leu	Asn	Glu
Val	Val	Glu	305	Phe	Arg	Cys	Gln	Pro	310	Gly	Phe	Gly	Met	315	Lys	Gly	Pro	Ser
His	Val	Lys	325	Cys	Gln	Ala	Leu	Asn	330	Lys	Trp	Glu	Pro	335	Glu	Leu	Pro	Ser
Cys	Ser	Arg	340	Val	Cys	Gln	Pro	Pro	345	Asp	Val	Leu	His	350	Ala	Glu	Arg	
Thr	Gln	Arg	355	Asp	Lys	Asp	Asn	Phe	360	Ser	Pro	Gly	Gln	365	Glu	Val	Phe	Tyr
Ser	Cys	Glu	370	Pro	Gly	Tyr	Asp	Leu	375	Arg	Gly	Ser	Thr	380	Tyr	Leu	His	Cys
Thr	Pro	Gln	385	Gly	Asp	Trp	Ser	Pro	390	Ala	Ala	Pro	Arg	395	Cys	Glu	Val	Lys
Ser	Cys	Asp	405	Phe	Leu	Gly	Gln	Leu	410	Pro	Asn	Gly	His	415	Val	Leu	Phe	
Pro	Leu	Asn	420	Leu	Gln	Leu	Gly	Ala	425	Lys	Val	Asp	Phe	430	Val	Cys	Asp	Glu
Gly	Phe	Gln	435	Leu	Lys	Gly	Ser	Ala	440	Ser	Tyr	Cys	Val	445	Leu	Ala	Gly	
Met	Glu	Ser	450	Leu	Trp	Asn	Ser	Ser	455	Val	Pro	Val	Cys	460	Glu	Arg	Val	Thr
Phe	Gln	Ala	465	Asn	Leu	Ser	Pro	Ser	470	Val	Gln	Tyr	Leu	475	Thr	His	Asp	
Thr	Leu	Arg	485	Glu	Glu	Ser	Ser	Asp	490	Tyr	Ser	Thr	Trp	495	Leu	Gln	Asn	
Ile	Phe	Phe	500	Pro	Thr	Gly	Lys	Ser	505	Cys	Glu	Thr	Pro	510	Val	Pro	Val	
Asn	Gly	Met	515	Val	His	Val	Ile	Thr	520	Asp	Ile	His	Val	525	Gly	Ser	Arg	Ile
Asn	Tyr	Ser	530	Cys	Thr	Thr	Gly	His	535	Arg	Leu	Ile	Gly	540	His	Ser	Ser	Ala
Glu	Cys	Ile	545	Leu	Ser	Gly	Asn	Thr	550	Ala	His	Trp	Ser	555	Met	Lys	Pro	Pro
Ile	Cys	Gln	565	Ile	Pro	Cys	Gly	Leu	570	Pro	Pro	Asn	Ile	575	Thr	Asn	Gly	
Tyr	Phe	Ile	580	Thr	Asp	Arg	Glu	Tyr	585	Phe	His	Tyr	Gly	590	Ser	Val	Val	
		595					600						605					

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Thr Tyr His Cys Asn Leu Gly Ser Arg Gly Arg Lys Val Phe Glu Leu
 610 615 620
 Val Gly Glu Pro Ser Ile Tyr Cys Thr Ser Lys Asp Asp Gln Val Val
 625 630 635 640
 Val Trp Ser Gly Pro Val Pro Gln Cys Ile Ile Pro Asn Lys Cys Thr
 645 650 655
 Pro Pro Asn Val Glu Asn Gly Ile Leu Val Ser Asp Asn Arg Ser Leu
 660 665 670
 Phe Ser Leu Asn Glu Val Val Glu Phe Arg Cys Gln Pro Gly Phe Val
 675 680 685
 Met Lys Gly Pro His Arg Val Gln Cys Gln Ala Leu Asn Lys Trp Glu
 690 695 700
 Pro Glu Leu Pro Ser Cys Ser Arg Gly Tyr Ser Lys Arg Asn Ser Pro
 705 710 715 720
 Ile Thr Asn Lys Tyr Ser Gly Thr Val Leu Ser Thr Met Cys Gln Pro
 725 730 735
 Pro Pro Glu Ile Leu His Gly Glu His Thr Leu Ser His Gln Asp Asn
 740 745 750
 Phe Leu Pro Gly Gln Glu Val Phe Tyr Ser Cys Glu Pro Ser Tyr Asp
 755 760 765
 Leu Arg Gly Ala Ala Ser Leu His Cys Met Pro Gln Gly Asp Trp Thr
 770 775 780
 Pro Glu Ala Pro Arg Cys Thr Gly Ala Ser Leu Ser Pro Ser His Gly
 785 790 795 800
 Ser Leu Thr Pro Val Leu Phe Phe Leu Val Lys Ser Cys Asp
 805 810 815
 Asp Phe Leu Gly Gln Leu Pro His Gly Arg Val Leu Phe Pro Leu Asn
 820 825 830
 Leu Gln Leu Gly Ala Lys Val Ser Phe Val Cys Asp Glu Gly Ser Ala
 835 840 845
 Ser His Cys Val Leu Ala Gly Thr Lys Ala Leu Trp Asn Ser Ser Val
 850 855 860
 Pro Val Cys Glu Gln Ile Phe Cys Pro Asn Pro Pro Ala Ile Leu Asn
 865 870 875 880
 Gly Arg His Thr Gly Thr Pro Pro Gly Asp Ile Pro Tyr Gly Lys Glu
 885 890 895
 Val Ser Tyr Thr Cys Asp Pro His Pro Asp Arg Gly Met Thr Phe Asn
 900 905 910
 Leu Ile Gly Glu Ser Thr Ile Arg Arg Thr Ser Glu Pro His Gly Asn
 915 920 925
 Gly Val Trp Ser Ser Pro Ala Pro Arg Cys Glu Leu Pro Val Gly Ala
 930 935 940
 Asp Gln Cys Asn Val Pro Glu Trp Leu Pro Phe Ala Arg Pro Thr Asn
 945 950 955 960
 Leu Thr Asp Asp Phe Glu Phe Pro Ile Gly Thr Tyr Leu Asn Tyr Glu
 965 970 975
 Cys Arg Pro Gly Tyr Ser Gly Arg Pro Phe Ser Ile Ile Cys Leu Lys
 980 985 990
 Asn Ser Val Trp Thr Ser Ala Lys Asp Lys Cys Lys Arg Lys Ser Cys
 995 1000 1005
 Arg Asn Pro Pro Asp Pro Val Asn Gly Met Ala His Val Ile Lys Asp
 1010 1015 1020
 Ile Gln Phe Arg Ser Gln Ile Lys Tyr Ser Cys Pro Lys Gly Tyr Arg
 1025 1030 1035 1040
 Leu Ile Gly Ser Ser Ala Thr Cys Ile Ile Ser Gly Asn Thr Val
 1045 1050 1055
 Ile Trp Asp Asn Lys Thr Pro Val Cys Asp
 1060 1065

<210> 87

<211> 683

<212> PRT

<213> Homo sapiens

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<400> 87

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Ile Cys Cys Pro Asp Asp Pro Gln Pro Ala Lys Asp Gln Leu Ala Thr
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Val Pro Lys Asp Ile Pro Leu Asp Cys Asp Cys Val Leu Thr Gly Glu
20      25      30
Asp Ile Leu Gly Glu Val Ala Asn Arg Thr Ala Gln Gly Leu Glu Gly
35      40      45
Leu Val Ser Asp Ser Ala Cys Thr Val Gly Thr Ile Asp Ala Glu Gln
50      55      60
Leu Ser Asp Thr Asp Ser Val Gln Met Phe Leu Glu Leu Glu Lys Glu
65      70      75      80
Cys Leu Cys Glu Gly Val Thr Pro Leu Val Glu Leu Gln Asn Gln
85      90      95
Ile Ser Ser Glu Gly Leu Ala Ala Ser Gln Asp Ala Glu Asn Leu Leu
100      105      110
Val Ile Ser His Phe Ser Gly Ala Ala Leu Glu Lys Glu Gln His Leu
115      120      125
Gly Leu Leu His Val Arg Ala Lys Asp Tyr Asp Thr Arg Leu Asp Cys
130      135      140
Gly Tyr Phe Asn Thr Leu Asp Ser Ser Gln Val Pro Asn Ala Val Glu
145      150      155      160
Leu Ile Ala His Val Asp Ile Met Arg Asp Thr Ser Thr Val Ser Lys
165      170      175
Glu Glu Cys Glu Lys Val Pro Phe Ser Pro Arg Thr Ala Glu Phe Lys
180      185      190
Ser Arg Gln Pro Ala Asp Leu Asp Ser Leu Glu Lys Leu Asp Pro Gly
195      200      205
Gly Leu Leu Asn Ser Asp His Arg Val Ser His Glu Glu Lys Leu Ser
210      215      220
Gly Phe Ile Ala Ser Glu Leu Ala Lys Asp Asn Gly Ser Leu Ser Gln
225      230      235      240
Gly Asp Cys Ser Gln Thr Glu Gly Asn Gly Glu Glu Cys Ile Glu Arg
245      250      255
Val Thr Phe Ser Phe Ala Phe Asn His Glu Leu Thr Asp Val Thr Ser
260      265      270
Gly Pro Glu Val Glu Val Leu Tyr Glu Ser Asn Leu Leu Thr Asp Glu
275      280      285
Ile His Leu Glu Ser Gly Asn Val Val Thr Cys Glu Leu Ser Val Glu Lys
290      295      300      305
Leu Thr Ser Met Gly Asn Val Val Thr Cys Glu Leu Ser Val Glu Lys
310      315      320
Val Cys Asp Glu Asp Gly Glu Ala Lys Glu Leu Asp Tyr Gln Ala Thr
325      330      335
Leu Leu Glu Asp Gln Ala Pro Ala His Phe His Arg Asn Phe Pro Glu
340      345      350
Gln Val Phe Gln Asp Leu Gln Arg Lys Ser Pro Glu Ser Glu Ile Leu
355      360      365
Ser Leu His Leu Leu Val Glu Leu Arg Leu Asn Pro Asp Gly Val
370      375      380
Glu Thr Val Asn Asp Thr Lys Pro Glu Leu Asn Val Ala Ser Ser Glu
385      390      395      400
Gly Gly Glu Met Glu Arg Arg Asp Ser Asp Ser Phe Leu Asn Ile Phe
405      410      415
Pro Glu Lys Gln Val Thr Lys Ala Gly Asn Thr Glu Pro Val Leu Glu
420      425      430
Glu Trp Ile Pro Val Leu Gln Arg Pro Ser Arg Thr Ala Ala Val Pro
435      440      445
Thr Val Lys Asp Ala Leu Asp Ala Ala Leu Pro Ser Pro Glu Glu Gly
450      455      460
Thr Ser Ile Ala Ala Val Pro Ala Pro Glu Gly Thr Ala Val Val Ala
465      470      475      480
Ala Leu Val Pro Phe Pro His Glu Asp Ile Leu Val Ala Ser Ile Val

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Ser Leu Glu Glu 485 Asp Val Thr Ala 490 Ala Val Ser Ala 495 Glu
 Arg Ala Thr Val 500 Pro Ala Val Thr Val 505 Ser Val Pro Glu 510 Gly Thr Ala
 Ala Val 515 Ala Val Ser Ser 520 Pro Glu Glu Thr Ala 525 Pro Ala Val Ala
 Ala 530 Ile Thr Gln Glu 535 Met Ser Ala Val 540 Gly Phe Ser Pro
 545 Glu Trp Ala Ala Leu 550 Ala Val Thr Val 555 Pro Ile Thr Glu Glu Asp Ala
 Ala Ala Val Pro 565 Thr Pro Glu Val Ala 570 Ala Ile Pro Ala 575 Ser Val
 Pro Thr Pro 580 Glu Val Pro Ala Ile 585 Pro Ala Ala Ala Val 590 Pro Pro Met
 Glu Glu Val Ser Pro Ile Gly Val 600 Pro Phe Leu Gly Val 605 Ser Ala His
 Thr 610 Asp Ser Val Pro Ile Ser Glu Glu Gly Thr 620 Pro Val Leu Glu Glu
 625 Ala Ser Ser Thr Gly 630 Met Trp Ile Lys Glu 635 Asp Leu Asp Ser Leu Val
 Phe Gly Ile Lys 645 Glu Val Thr Ser Thr Val 650 Leu His Gly Lys Val Pro
 Leu Ala Ala 660 Thr Ala Gly Leu Asn 665 Ser Asp Glu 670

<210> 88
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 88
 Ser Glu Gly Asn Lys Arg Arg Leu Ser Thr Ala Ile Ala Leu Met Gly
 1 5 10 15
 Arg Ser Ser Val Ile Phe Leu Asp Glu Pro Ser Thr Gly Met Asp Pro
 20 25 30
 Val Ala Arg Arg Leu Leu Trp Asn Met Val Thr Lys Thr Arg Glu Ser
 35 40 45
 Gly Lys Ala Ile Val Met Thr Ser His Ser Met Glu Glu Cys Asp Ala
 50 55 60
 Leu Cys Thr Ser Leu Ala Ile Met Val Gln Gly Lys Phe Thr Cys Leu
 65 70 75 80
 Gly Ser Pro Gln His Leu Lys Ser Lys Phe Gly Asn Ile Tyr Ile Leu
 85 90 95
 Lys Val Lys Val Lys Thr Glu Asp Lys Leu Glu Asp Phe Lys Cys Tyr
 100 105 110
 Val Ala Thr Thr Phe Pro Gly Glu Ile Ala Met Val Thr Val Phe Leu
 115 120 125
 Leu Leu Leu Lys Val Phe Gly Ile Leu Glu Glu Ala Lys Glu Gln
 130 135 140
 Phe Asp Leu Glu Asp Tyr Ser Val Ser Gln Ile Thr Leu Glu Gln Val
 145 150 155 160
 Phe Leu Thr Phe Ala Asn Pro Glu Lys Ala Ser Ser Asp Asp
 165 170

<210> 89
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 89
 Asp Cys Gly Pro Pro Pro Glu Leu Pro Phe Ala Phe Pro Ile Asn Pro
 1 5 10 15

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Leu Tyr Asp Thr Glu Phe Lys Thr Gly Thr Thr Leu Lys Tyr Thr Cys
 20 25 30
 His Pro Gly His Gly Lys Ile Asn Ser Ser Arg Leu Ile Cys Asp Ala
 35 40 45
 Lys Asp Ser Trp Asn Tyr Ser Ile Phe Cys Ala Ile Ala Lys Cys Glu
 50 55 60
 Pro Pro Pro Asp Ile Arg Asn Gly Lys His Ser Gly Gly Asp Gln Glu
 65 70 75 80
 Phe Tyr Thr Tyr Ala Ser Ser Val Thr Tyr Ser Cys Asn Pro Tyr Phe
 85 90 95
 Ser Leu Ile Gly Asn Val Ser Ile Ser Cys Thr Val Glu Asn Glu Thr
 100 105 110
 Ile Gly Val Trp Ser Pro Asn Pro Ile Cys Glu
 115 120

<210> 90

<211> 294

<212> PRT

<213> Homo sapiens

<400> 90

Ile Ser Lys Asp Arg Lys Glu Arg Val His Gln Gly Met Val Arg Ala
 1 5 10 15
 Ala Thr Val Gly Tyr Gly Ile Leu Arg Glu Gly Gly Ser Ala Val Asp
 20 25 30
 Ala Val Glu Gly Ala Val Val Ala Leu Glu Asp Asp Pro Glu Phe Asn
 35 40 45
 Ala Gly Cys Gly Ser Val Leu Asn Thr Asn Gly Glu Val Glu Met Asp
 50 55 60
 Ala Ser Ile Met Asp Gly Lys Asp Leu Ser Ala Gly Ala Val Ser Ala
 65 70 75 80
 Val Gln Cys Ile Ala Asn Pro Ile Lys Leu Ala Arg Leu Val Met Glu
 85 90 95
 Lys Thr Pro His Cys Phe Leu Thr Asp Gln Gly Ala Ala Gln Phe Ala
 100 105 110
 Ala Ala Met Gly Val Pro Glu Ile Pro Gly Glu Lys Leu Val Thr Glu
 115 120 125
 Arg Asn Lys Lys Arg Leu Glu Lys Glu Lys His Glu Lys Gly Ala Gln
 130 135 140
 Lys Thr Asp Cys Gln Lys Asn Leu Gly Thr Val Gly Ala Val Ala Leu
 145 150 155 160
 Asp Cys Lys Gly Asn Val Ala Tyr Ala Thr Ser Thr Gly Gly Ile Val
 165 170 175
 Asn Lys Met Val Gly Arg Val Gly Asp Ser Pro Cys Leu Gly Ala Gly
 180 185 190
 Gly Tyr Ala Asp Asn Asp Ile Gly Ala Val Ser Thr Thr Gly His Gly
 195 200 205
 Glu Ser Ile Leu Lys Val Asn Leu Ala Arg Leu Thr Leu Phe His Ile
 210 215 220
 Glu Gln Gly Lys Thr Val Glu Glu Ala Ala Asp Leu Ser Leu Gly Tyr
 225 230 235 240
 Met Lys Ser Arg Val Lys Gly Leu Gly Gly Leu Ile Val Val Ser Lys
 245 250 255
 Thr Gly Asp Trp Val Ala Lys Trp Thr Ser Thr Ser Met Pro Trp Ala
 260 265 270
 Ala Ala Lys Asp Gly Lys Leu His Phe Gly Ile Asp Pro Asp Thr
 275 280 285
 Thr Ile Thr Asp Leu Pro
 290

<210> 91

<211> 467

<212> PRT

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<213> Homo sapiens

<400> 91

Leu Gln Leu Gly Ala Lys Val Ser Phe Val Cys Asp Glu Gly Phe Arg
 1 5 10 15
 Leu Lys Gly Arg Ser Ala Ser His Cys Val Leu Ala Gly Met Lys Ala
 20 25 30
 Leu Trp Asn Ser Ser Val Pro Val Cys Glu Arg Ile Ile Cys Gly Leu
 35 40 45
 Pro Pro Thr Ile Ala Asn Gly Asp Phe Thr Ser Ile Ser Arg Glu Tyr
 50 55 60
 Phe His Tyr Gly Ser Val Val Thr Tyr His Cys Asn Leu Gly Ser Arg
 65 70 75 80
 Gly Lys Lys Val phe Glu Leu Val Gly Glu Pro Ser Ile Tyr Cys Thr
 85 90 95
 Ser Lys Asp Asp Gln Val Gly Ile Trp Ser Gly Pro Ala Pro Gln Cys
 100 105 110
 Ile Ile Pro Asn Lys Cys Thr Pro Pro Asn Val Glu Asn Gly Ile Leu
 115 120 125
 Val Ser Asp Asn Arg Ser Leu Phe Ser Leu Asn Glu Val Val Glu Phe
 130 135 140
 Arg Cys Gln Pro Gly Phe Gly Met Lys Gly Pro Ser His Val Lys Cys
 145 150 155 160
 Gln Ala Leu Asn Lys Trp Glu Pro Glu Leu Pro Ser Cys Ser Arg Val
 165 170 175
 Cys Gln Pro Pro Pro Asp Val Leu His Ala Glu Arg Thr Gln Arg Asp
 180 185 190
 Lys Asp Asn Phe Ser Pro Gly Gln Glu Val Phe Tyr Ser Cys Glu Pro
 195 200 205
 Gly Tyr Asp Leu Arg Gly Ser Thr Tyr Leu His Cys Thr Pro Gln Gly
 210 215 220
 Asp Trp Ser Pro Ala Ala Pro Arg Cys Glu Val Lys Ser Cys Asp Asp
 225 230 235 240
 Phe Leu Gly Gln Leu Pro Asn Gly His Val Leu Phe Pro Leu Asn Leu
 245 250 255
 Gln Leu Gly Ala Lys Val Asp Phe Val Cys Asp Glu Gly Phe Gln Leu
 260 265 270
 Lys Gly Ser Ser Ala Ser Tyr Cys Val Leu Ala Gly Met Glu Ser Leu
 275 280 285
 Trp Asn Ser Ser Val Pro Val Cys Glu Gln Ile Phe Cys Pro Asn Pro
 290 295 300
 Pro Ala Ile Leu Asn Gly Arg His Thr Gly Thr Pro Pro Gly Asp Ile
 305 310 315 320
 Pro Tyr Gly Lys Glu Val Ser Tyr Thr Cys Asp Pro His Pro Asp Arg
 325 330 335
 Gly Met Thr Phe Asn Leu Ile Gly Glu Ser Thr Ile Arg Arg Thr Ser
 340 345 350
 Glu Pro His Gly Asn Gly Val Trp Ser Ser Pro Ala Pro Arg Cys Glu
 355 360 365
 Leu Pro Val Gly Ala Asp Gln Cys Asn Val Pro Glu Trp Leu Pro Phe
 370 375 380
 Ala Arg Pro Thr Asn Leu Thr Asp Asp Phe Glu Phe Pro Ile Gly Thr
 385 390 395 400
 Tyr Leu Asn Tyr Glu Cys Arg Pro Gly Tyr Ser Gly Arg Pro Phe Ser
 405 410 415
 Ile Ile Cys Leu Lys Asn Ser Val Trp Thr Ser Ala Lys Asp Lys Cys
 420 425 430
 Lys Arg Lys Ser Cys Arg Asn Pro Pro Asp Pro Val Asn Gly Met Ala
 435 440 445
 His Val Ile Lys Asp Ile Gln Phe Arg Ser Gln Ile Lys Tyr Ser Cys
 450 455 460
 Pro Lys Gly
 465

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<210> 92
 <211> 446
 <212> PRT
 <213> Homo sapiens

<400> 92

His	Gly	Arg	Val	Leu	Leu	Pro	Leu	Asn	Leu	Gln	Leu	Gly	Ala	Lys	Val
1				5					10					15	
Ser	Phe	Val	Cys	Asp	Glu	Gly	Phe	Arg	Leu	Lys	Gly	Arg	Ser	Ala	Ser
			20					25					30		
His	Cys	Val	Leu	Ala	Gly	Met	Lys	Ala	Leu	Trp	Asn	Ser	Ser	Val	Pro
		35					40					45			
Val	Cys	Glu	Arg	Ile	Ile	Cys	Gly	Leu	Pro	Pro	Thr	Ile	Ala	Asn	Gly
	50					55					60				
Asp	Phe	Thr	Ser	Ile	Ser	Arg	Glu	Tyr	Phe	His	Tyr	Gly	Ser	Val	Val
65					70					75					80
Thr	Tyr	His	Cys	Asn	Leu	Gly	Ser	Arg	Gly	Lys	Lys	Val	Phe	Glu	Leu
				85					90					95	
Val	Gly	Glu	Pro	Ser	Ile	Tyr	Cys	Thr	Ser	Lys	Asp	Asp	Gln	Val	Gly
			100					105					110		
Ile	Trp	Ser	Gly	Pro	Ala	Pro	Gln	Cys	Ile	Ile	Pro	Asn	Lys	Cys	Thr
		115					120					125			
Pro	Pro	Asn	Val	Glu	Asn	Gly	Ile	Leu	Val	Ser	Asp	Asn	Arg	Ser	Leu
	130					135					140				
Phe	Ser	Leu	Asn	Glu	Val	Val	Glu	Phe	Arg	Cys	Gln	Pro	Gly	Phe	Gly
145					150					155					160
Met	Lys	Gly	Pro	Ser	His	Val	Lys	Cys	Gln	Ala	Leu	Asn	Lys	Trp	Glu
				165					170					175	
Pro	Glu	Leu	Pro	Ser	Cys	Ser	Arg	Val	Cys	Gln	Pro	Pro	Pro	Asp	Val
			180					185					190		
Leu	His	Ala	Glu	Arg	Thr	Gln	Arg	Asp	Lys	Asp	Asn	Phe	Ser	Pro	Gly
		195					200					205			
Gln	Glu	Val	Phe	Tyr	Ser	Cys	Glu	Pro	Gly	Tyr	Asp	Leu	Arg	Gly	Ser
	210					215					220				
Thr	Tyr	Leu	His	Cys	Thr	Pro	Gln	Gly	Asp	Trp	Ser	Pro	Ala	Ala	Pro
225					230					235					240
Arg	Cys	Glu	Val	Lys	Ser	Cys	Asp	Asp	Phe	Leu	Gly	Gln	Leu	Pro	Asn
				245					250					255	
Gly	His	Val	Leu	Phe	Pro	Leu	Asn	Leu	Gln	Leu	Gly	Ala	Lys	Val	Asp
			260					265					270		
Phe	Val	Cys	Asp	Glu	Gly	Phe	Gln	Leu	Lys	Gly	Ser	Ser	Ala	Ser	Tyr
		275					280					285			
Cys	Val	Leu	Ala	Gly	Met	Glu	Ser	Leu	Trp	Asn	Ser	Ser	Val	Pro	Val
	290					295					300				
Cys	Glu	Gln	Ile	Phe	Cys	Pro	Asn	Pro	Pro	Ala	Ile	Leu	Asn	Gly	Arg
305					310					315					320
His	Thr	Gly	Thr	Pro	Pro	Gly	Asp	Ile	Pro	Tyr	Gly	Lys	Glu	Val	Ser
				325					330					335	
Tyr	Thr	Cys	Asp	Pro	His	Pro	Asp	Arg	Gly	Met	Thr	Phe	Asn	Leu	Ile
			340					345					350		
Gly	Glu	Ser	Thr	Ile	Arg	Arg	Thr	Ser	Glu	Pro	His	Gly	Asn	Gly	Val
		355					360					365			
Trp	Ser	Ser	Pro	Ala	Pro	Arg	Cys	Glu	Leu	Pro	Val	Gly	Ala	Gly	Gln
	370					375					380				
Tyr	Pro	Leu	Pro	His	Ile	Leu	Asn	Gly	Phe	Arg	Ile	Cys	Ser	Glu	Val
385					390					395					400
Glu	Val	Phe	Glu	Tyr	Leu	Asn	Ala	Val	Thr	Asp	Ser	Cys	Asp	Pro	Ala
				405					410					415	
Pro	Gly	Pro	Asp	Pro	Phe	Ser	Leu	Ile	Gly	Glu	Ser	Thr	Ile	Tyr	Cys
			420					425					430		
Gly	Asp	Asn	Ser	Val	Trp	Asn	His	Ala	Ala	Pro	Glu	Cys	Lys		
		435					440					445			